# **SERVICE MANUAL**

BE-3D CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FX11 KV-29FX11 KV-29FX11 KV-29FX11	<b>B</b> RM-886	French AEP	SCC-K01U-A	KV-29FX11 KV-29FX11 KV-29FX11	<b>R</b> RM-886	OIRT	SCC-K20K-A SCC-K20L-A SCC-K04Q-A







ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H	GERMAN Stereo	ITALIA VHF: A-H2 (C) UHF: 21-69 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K, L, I	GERMAN/NICAM Stereo	L VHF: F02-F10 UHF: F21-F60 CABLE: B-Q B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 I UHF: B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H	GERMAN Stereo	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 D/K VHF: R01-R12 UHF: R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	KV-29FX11K GERMAN/NICAM Stereo KV-29FX11R GERMAN Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	ı	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	29FX11A	29FX11B	29FX11D	29FX11E	29FX11K	29FX11R	29FX11U
Power Consumption	89.3 W	98.5 W	149.5 W				

[PICTURE TUBE] Super Trinitron

Approx. 72cm (29 inches) (Approx. 68 cm picture measured

diagonally)

110 degree deflection

### **Input/Output Terminals**

#### [REAR]

→ 1 21-pin Euro connector (CENELEC standard).

Inputs for Audio and Video signals.

- Inputs for RGB.

Outputs of TV Video and Audio signals.

⇒2/<del>S</del>2 21-pin Euro connector.

- inputs for Audio and Video signals.

- inputs for S Video.

- outputs for Audio and Video signals (selectable).

→ Phono Jack

- Outputs for Audio Signals

#### [FRONT]

Sign Video input - phono jack→O3 Audio inputs - phono jacks

──§3 S Video input 4 pin DIN

Headphone jacks : stereo minijack

Sound output

Left/Right 2x15W (Music Power) Subwoofer 2x30W (Music Power)

Power requirements 220 - 240V

Dimensions Approx 746x569x526mm

Weight Approx 51kg

Supplied accessories RM-886 Remote Commander (1)
IEC designated R6 battery (2)

Other features 2-Way Speaker, NICAM\*, FASTEXT,

TOPTEXT

\*(KV-29FX11B/29FX11E/29FX11K/

KV-29FX11U only)

[RM-886]

Remote control system infrared control

Power requirements 3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions Approx 65x225x21mm (w/h/d)
Weight Approx 157g (Not including battery)

Design and specifications are subject to change without notice.

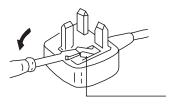
Model Name	KV-29FX11A	KV-29FX11B	KV-29FX11D	KV-29FX11E	KV-29FX11K	KV-29FX11R	KV-29XF11U
Pal Comb	OFF						
PIP	OFF						
Woofer Box	OFF						
Scart 1	ON						
Scart 2	ON						
Front in (3)	ON						
Scart 4	OFF						
Projector	OFF						
AKB in 16:9 mode	ON						
Norm B/G/H	ON	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	OFF	ON
Norm D/K	OFF	ON	OFF	ON	ON	ON	OFF
Norm AUS	OFF						
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF						
Norm M	OFF						
Teletext	ON						
Nicam Stereo	OFF	ON	OFF	ON	ON	OFF	ON
Language Preset	Italian	French	German	Spanish	OIRT	OIRT	English

### WARNING (KV-29FX11U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

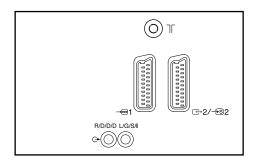
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.

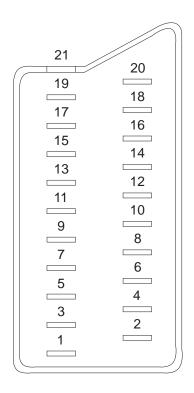


How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

### 21 pin connector ( $\rightarrow \infty$ 1, $\longleftrightarrow$ 2 / $\longleftrightarrow$ 8 2)

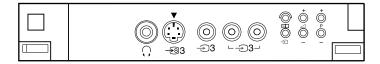




Pin No	1	2	4	Signal	Signal level
1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V): Part mode Low state (0-2V): TV mode Input impedence: More than 10K ohms Input capacitance: Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
45	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	0	_	_	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

Ocnnected Not Connected (open) \* at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V+/- 3dB 75 ohm, positive Sync 0.3V -3/+10dB
4	C (S signal) input	0.3V+/- 3dB 75 ohm, positive Sync



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		CAUTION				ATTENTION	

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP

#### WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION !!

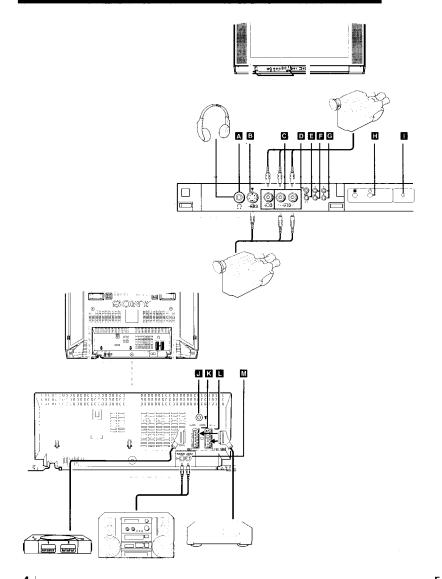
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

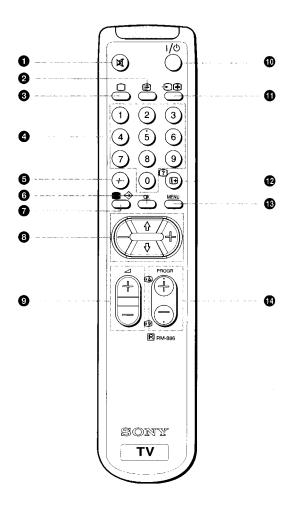
#### ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ !!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

### **SECTION 1 GENERAL**

The operating instructions mentioned here are partial abstracts from the Operating Manual. The page numbers of the Operating Instruction Manual remain as in the manual.





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### **Overview**

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flap at the front of the instruction manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

#### TV buttons and Terminals

Reference and Symbol	Name	Refer to Page
Front of the set		
AΩ	Headphones jack	29
<b>B</b> − <b>⑤</b> 3	S video input jack	29
<b>C</b> ⊕ 3, ⊕ 3	Audio/video input jacks	29
D <b>&gt;&gt;</b>	Automatic Preset button	11
<b>E</b> →	Input mode button	13
<b>F</b> ⊿+/-	Volume control	12
<b>G</b> P+/-	Programme button	12
<b>H</b> ()	Standby mode indicator	12
• •	Main power switch	12
Rear of the set		
<b>1</b>	Aerial socket	10
<b>K</b> -Ö1	21 pin Euro connector	29
L ⊕2/ <del>-</del> 32	21 pin Euro connector	29
<b>M</b> (-	Audio outputs - phono jacks	29

#### **Remote Commander Operation**

Re	ference and Symbol	Name	Refer to Page
0	σ*,	Muting on/off button	12
0		Teletext button	13
8	0	TV power on/TV mode button	12, 13
Ø	1, 2, 9, 0	Number buttons	12
9	-/	Double digit entering button	12
0	OK	OK (Confirmation) button	,14
0	<b>●</b> ♦>	Picture mode button Teletext: Favourite pages button	12 28
8		Menu control	14
9	⊿+/-	Volume control button	12
10	I <b>/</b> O	TV standby ON-OFF button/TV power on	12
Ð	Ð	Input mode button	13
	•	Teletext: Freezing the subpage	27
P	(i) (?)	On-screen display button Teletext: reveal button	12 27
Ð	MENU	Menu on/off button	14
Ð	PROGR +/-  (♣) (₹)	Programme buttons Teletext: Page up/page down buttons	12 13

### Step 1

### **Connecting the Aerial**

(If you connect a VCR, skip to step 2)

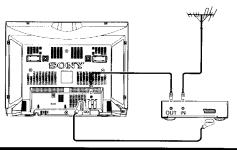
Insert the aerial plug tightly into the aerial socket \(\frac{1}{3}\). Use a good-quality aerial cable (not supplied), corresponding to the relevant regulations.

### Step 2

### **Connecting a VCR**

We recommend that you tune in the VCR signal to programme number "0". For details, see "Presetting Channels Manually" on page 16.

See "Connecting Optional Equipment" on page 29 for more information.



### Step 3

10

# Inserting the Batteries Into the Remote Commander



Respect your environment! Dispose of used batteries in an environmentally friendly way.

### Step 4

### **Presetting Channels Automatically**

With this function, the TV can automatically search and store up to 100 different channel numbers. If you prefer manual presetting, refer to "Presetting Channels Manually" on page 16.

Plug into mains.

Press the power switch ① **1** on the TV set.

Press and hold the button D on the TV set until the automatic menu is displayed and the search starts.

After all available channels are stored, the normal TV picture is shown.

Note: Channels are automatically stored as follows:

Programme 1 BBC1

Programme 2 BBC2

Programme 3 ITV

Programme 4 CH4 or S4C

Programme 5 CH5 (if available in your area)

Programme 6 -

Programme 7 -

## **TV Operation**

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flap at the front of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

То	Press
Switch on	① <b>I</b> on TV
Switch off temporarily	I/少 <b>①</b> TV is now in standby mode and 心 <b>H</b> indicator on TV lights up.
Switch on from standby mode	□ ③, I/७ ⑩, PROGR +/- ⑫ ⓒ or any number button ④.
Switch off completely	① <b>II</b> on TV To save energy, switch off your TV completely when TV is not in use.
Select programmes	PROGR +/- (1) (2) or number buttons (4) For double digit number, press -/ (5) then the number e.g. For 23, press -/ (5) then 2 and 3.
Display on screen indications	(1) 10. Press again to make the indications disappear.
Adjust the volume	∠ + or - <b>9 F</b>
Mute the sound	□ Press again to restore the sound.

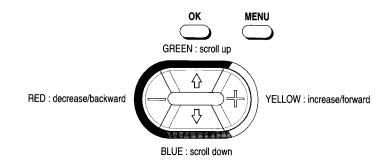
### TV Operation (continued)

То	Press
View video input picture (see page 30 for detailed information)	→ ① ■ repeatedly until the desired video input appears. Press □ ③ to restore the TV picture.
View teletext (see page 27 for detailed information)	
Switch on teletext	<b>a</b> 2
Select a page	three number buttons <b>4</b> or <b>4</b> (for next page) or <b>4</b> (for previous page).
Use fastext	Blue, Green, Red or Yellow 3.
Switch off teletext	○ 3 or press 🗐 2 twice.

# Adjusting and Setting the TV Using the Menu

You can adjust and set various functions on the TV using the following remote commander buttons:

- 1 Press MENU 18 to switch menu on / off.
- **2** Use the menu control buttons **3** and OK button **6** (confirm) as follows:



### **Choosing the Menu Language**

This function enables you to change the language of the menu screens.

- 1 Press power switch ① on the TV. If the standby indicator on the TV is lit, press or a number button on the Remote Commander.
- Press the MENU button ® on the remote commander.



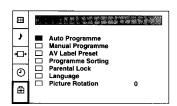
- **3** Press blue or green **3** to select the language you want then press yellow **3**.
- 4 Press the MENU button 19 to restore the normal TV picture.

**Note:** If you wish to change your chosen language, press the MENU button to display the main menu, then select 'Language'.

### **Presetting Channels Automatically**

You may have already preset the channels automatically by using the method shown on page 11. You can also preset channels automatically by using the remote commander as follows:

- 1 Press the MENU button **18**.
- 2 Press blue or green ③ to select the symbol ≟ on the menu screen then press yellow ⑤.



- Press blue or green 8 to select 'Auto Programme'.
- 4 Press and hold yellow 3 until the automatic menu is displayed and the search starts.

After all available channels have been preset, the normal TV picture is shown.



Note: Channels are automatically stored as follows:

Programme 1 BBC1

Programme 2 BBC2

Programme 3 ITV

Programme 4 CH4 or S4C

Programme 5 CH5 (if available in your area)

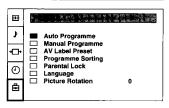
14

### **Presetting Channels Manually**

This function enables you to preset channels one by one to different programme numbers. This is also convenient for allocating programme numbers to various video input sources.

1 Press the MENU button 19.

Press blue or green ③ to select the symbol ☐ on the menu screen then press yellow ③.



Press blue or green to select 'Manual Programme' then press yellow .

Santan and the	in and a		i	23
PROG	SYS	CHAN	LABEL	AFT
□ 0	- 1	C29		ON
1	- 1	C31		ON
□ 2	- 1	C32		ON
□ 3	- 1	C36		ON
4	- 1	C37		ON
□ 5	- 1	C40		ON
□ 6	- 1	C41		ON
□ 7	i	C44		ON
□ 8	- 1	C49		ON
□ 9	1	C52		ON

- **4** Press blue or green **3** to select on which programme number you want to preset a channel then press yellow **3**.
- Press blue or green 3 to select the TV broadcast system 'I' or a video input source (AV1,AV2 ...) then press yellow 3.
- 6 Press yellow 8.
- 7 Select the first number digit of 'CHAN' (channel) then the second number digit of 'CHAN' with the number buttons ③ on the remote commander or

  Press blue or green ③ to search for the next available channel.

8 If you want to store the channel, go to step 9. If not, select a new channel using the number buttons 4 on the remote commander or press blue or green 3 to resume the search.

9 Press OK 6.

10 Repeat steps 4 to 9 to preset other channels.

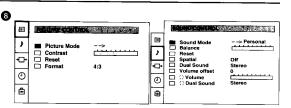
**11** Press the MENU button **3** to restore the normal TV picture.

## **Adjusting the Picture and Sound**

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

1 Press the MENU button **13**.

Press blue or green 
to select for picture control or ♪ for sound control then press yellow 
8.



**3** Press blue or green **3** to select the desired item then press yellow **3**.

4 Press red or yellow 3 to alter the item then press OK 6. For the effect of each control, see the following tables.

Repeat steps 3 and 4 to adjust the other items.

**6** Press the MENU button **18** to restore the normal TV picture.

PICTURE CONTROL	Effect
Picture Mode	Personal (for individual settings) —> Movie (for films)     —> Live (for programmes broadcast live or for use in bright room conditions)  In 'Personal' mode, you can preset Brightness, Colour, Sharpness and Hun (NTSC signals only) or follows:
	<ul><li>Sharpness and Hue (NTSC signals only) as follows:</li><li>1 Press blue or green to select the desired item then press yellow.</li></ul>
	<ul><li>2 Press red or yellow to adjust then press OK.</li><li>3 Press red to return to the PICTURE CONTROL menu.</li></ul>
Contrast	Darker——   —— Brighter (affects the chosen picture mode setting)
Reset	Resets the selected picture mode to the factory preset levels.
Format	• Wide screen effect (16:9)

#### **Adjusting the Picture and Sound (continued)**

SOUND CONTROL	Effect
Sound Mode	• Personal —> Rock —> Jazz —> Pop
	In 'Personal' mode, you can preset Treble and Bass as follows:
	1 Press blue or green to select the item then press yellow.
	2 Press red or yellow to adjust then press OK.
	3 Press red to return to the 'SOUND CONTROL' menu.
Balance	• Left ——   —— Right
Reset	Resets sound to the factory preset levels.
Spatial	Acoustic sound effect.
Dual Sound	• A: Left channel —> B: Right channel —> stereo —> mono
Volume Offset	<ul> <li>Presets the volume level for individual programmes.</li> </ul>
	-12 +12
∩ Volume	Adjusts the headphone volume.
∩ Dual Sound	Selects the headphone channels.
	A: Left channel —> B: Right channel —> stereo —> mono

### **Changing Modes Quickly**

You can quickly change the Picture Mode without entering the 'PICTURE CONTROL' menu.

- 1 Press  **7**.
- 2 Press blue or green to select the desired mode or

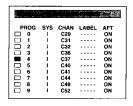
Press • 7 to select the desired mode.

**3** Press the MENU button **13** to restore the normal TV picture.

### **Manual Fine-Tuning**

Normally, the automatic fine-tuning (AFT) function is operating. If the picture is distorted however, you can manually fine-tune the TV to obtain a better picture reception.

- 1 Press the MENU button **13**.
- 2 Press blue or green ③ to select the symbol 🖹 on the menu screen then press yellow ③.
- Press blue or green to select 'Manual Programme' then press yellow .

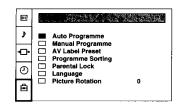


- 4 Press blue or green 3 to select the programme number which corresponds to the channel you want to manually fine-tune.
- **5** Press yellow **3** repeatedly until the AFT position changes colour..
- **6** Press blue or green **3** to fine-tune the channel frequency (-15 to +15).
- 7 Press OK 6.
- **8** Repeat steps 4 to 7 to fine-tune other channels.
- **9** Press the MENU button **10** to restore the normal TV picture.

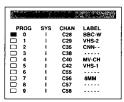
### **Sorting Programme Positions**

This function enables you to exchange the programme positions.

- 1 Press the MENU button 13.
- Press blue or green **3** to select the symbol **∃** on the menu screen then press yellow **3**.
- Press blue or green to select 'Programme Sorting' then press yellow .



4 Press blue or green 3 to select the channel you want to exchange then press yellow 3.



- **5** Press blue or green **1** to select the programme position of the channel you want exchanged then press yellow **3**.
- **6** Repeat steps 4 to 5 if you wish to exchange other programme positions.
- **7** Press the MENU button **18** to restore the normal TV picture.

4

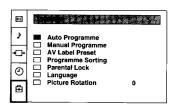
### **Using Parental Lock**

This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Press the MENU button **13**.

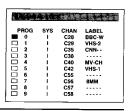
Press blue or green **③** to select the symbol **⊡** on the menu screen then press yellow **⑤**.

Press blue or green to select 'Parental Lock' then press yellow .



4 Press blue or green 3 to select the channel you want to block then press yellow 3.

The symbol appears before the programme number to indicate that this channel is now blocked.



**5** Repeat step 4 if you wish to block other channels.

**6** Press the MENU button **3** to restore the normal TV picture.

**Note:** To unblock, press yellow **3** after selecting the channel to unblock in the PARENTAL LOCK' menu.

### **Using the Sleep Timer**

This function enables you to select a time period after which the TV automatically switches into standby mode.

1 Press the MENU button **13**.

Press blue or green to select the symbol on the menu screen then press yellow 3.



3 Press yellow 8.

4 Press red or yellow 3 to set time delay and press OK 6.

OFF 0:30 1:00 1:30 ...... 3:30 4:00

One minute before the TV switches into standby mode, a message is displayed on the screen.

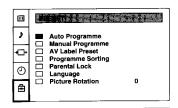
**5** Press the MENU button **18** to restore the normal TV picture.

### **Adjusting the Picture Rotation**

If, due to the earth magnetism, the picture slants, you can use the function 'Picture Rotation' to readjust the picture.

1 Press the MENU button 13.

Press blue or green **3**to select the symbol **□** on the menu screen then press yellow **3**.



Press blue or green to select 'Picture Rotation' then press yellow .

Press red or yellow **3** to adjust the picture rotation then press OK **6**. The adjusting range is -5 to +5.

**5** Press the MENU button **3** to restore the normal TV picture.

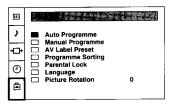
### **Skipping Programme Positions**

This function enables you to skip unused programme positions when selecting them with the PROGR+/- buttons. However, you can still watch the channel of the skipped programme position by using the number buttons.

1 Press the MENU button **13**.

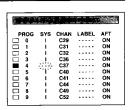
Press blue or green **3** to select the symbol **⊆** on the menu screen then press yellow **3**.

Press blue or green to select 'Manual Programme' then press yellow 8.



4 Press blue or green 3 to select the programme position you want to skip then press yellow 3.

Fress blue or green until '---' appears in the 'SYS' position.



6 Press OK 6.

**7** Repeat steps 4 to 6 to skip other programme positions.

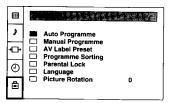
**8** Press the MENU button **13** to restore the normal TV picture.

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1 Press the MENU button 13

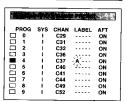
Press blue or green 3 to select the symbol 🖹 on the menu screen then press yellow 3.

Press blue or green 3 to select 'Manual Programme' then press yellow 3.



4 Press blue or green 3 to select the channel you wish to caption then press yellow 3 repeatedly until the first element of the 'LABEL' position is highlighted.

Press blue or green to select a letter or number and press yellow (select '-' for a blank).
Select the other four characters in the same way.



**6** After selecting all the characters, press OK **6**.

**7** Repeat steps 4 to 6 to caption names for other channels.

Press the MENU button ® to restore the normal TV screen.

### **Teletext**

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) gives you information on how to use the service. Make sure you use a TV channel with a strong signal, otherwise teletext errors may occur.

### **Switching Teletext On and Off**

1 Select the channel which carries the teletext service you wish to view.

Input three digits for the page number using the number buttons .

The page counter searches for the page and after some seconds the page is displayed.

**4** Press □ **3** or press **② 2** twice to return to the normal TV picture.

## **Using Other Teletext Functions**

То	Press
Access the next or preceding teletext page	for the next page or for the preceding page
Mix the mode	© when in teletext mode.  Now the teletext page is superimposed on the TV programme. Press again to return to the normal TV picture.
Freeze a teletext subpage	① Press once again to cancel.
Reveal hidden information (eg: answers to a quiz)	? <b>12</b> . Press once again to cancel.

26

### Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

#### Storing pages

- **1** Use the number buttons **4** to select the page you would like to store.
- 2 Press ♦ **7** twice.

  The colour prompts at the bottom of the screen flash.
- **3** Press red, green, blue or yellow **3** to store the selected page. The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

#### **Displaying the Favourite Pages**

- 1 Press � ⑦.
- 2 Press red, green, blue or yellow 8 to select the desired page.

Make sure you press ♦ **1**, otherwise the normal Fastext facility operates.

### **Using Fastext**

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue colours on the Remote Commander. Press the colour button ② that corresponds to the colour-coded menu. The selected page is displayed after some seconds.

### **Connecting Optional Equipment**

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the front flap page of this manual.

Symbol	Acceptable input signals	Available output signals
-⊕ 1 K	Normal audio/video and RGB	Audio/video from TV tuner
⊕ 2/ <del>-</del> ® 2 <b>□</b>	Normal audio/video and S video	Audio/video from selected source
⊕ 3, ⊕ 3 B ⊕ 3 C	Normal audio/video and S video	No output
<b>→ M</b>	Normal audio/video and RGB	Audio/video from TV tuner

#### **Connecting Headphones**

Plug in the headphones to the  $\Omega$  socket  $\triangle$  on the front of the TV.

#### About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

#### Notes on connections:

- If the picture or sound is distorted, move the VCR away from the TV.
- When connecting a monaural VCR, connect only the white jack to both the TV and VCR.

## **Selecting Input and Output Signals**

This section explains how to select the output signal from -2/--2 and how to select and view the input. You can use direct access buttons -2 -2 to select the input or the menu system to select input and output.

### **Selecting Input Signals With Direct Access Buttons**

Press → **① ■** repeatedly.

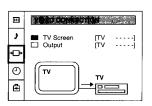
Press 

3 to restore the normal TV picture.

Symbol on the screen	Input Signal
⊕ 1 -⊕ ⊕ 2 -⊕ 2 -⊕ 3 -⊕ 3	Audio/video through Euro AV connector K RGB through Euro AV connector K Audio/video through Euro AV connector S video through Euro AV connector L Audio/video through the phono jacks S video through the 4 pin DIN B

### **Selecting With the Video Connection Menu**

- 1 Press the MENU button **3**.
- Press blue or green ③ to select → for "VIDEO CONNECTION" then press yellow ③.



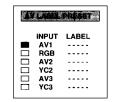
- Press blue or green to select input (for the TV screen) or output (for 
  → 2/→ 2 1 1 ) then press yellow 3.
- 4 Press red or yellow repeatedly to select the desired input or output source then press OK **6**.
- **5** Press the MENU button **10** to restore the normal TV picture.

**Note:** If you select 'AUTO' for output, the output source automatically becomes the same as the desired input source.

### **Using AV Label Preset**

This function enables you to label the input sources using up to five characters (letters or numbers).

- Press the MENU button 🚯.
- Press blue or green to select 'AV LABEL PRESET' then press yellow 8.



- 4 Press blue or green 3 to select the desired input source then press yellow 3.
- Press blue or green to select a letter or number then press yellow (select '-' for a blank).
  Select the other four characters in the same way.
- **6** After selecting all the characters, press OK **6**.
- **7** Repeat steps 4 to 6 to label other input sources.
- **8** Press the MENU button **13** to restore the normal TV screen.

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## **Troubleshooting**

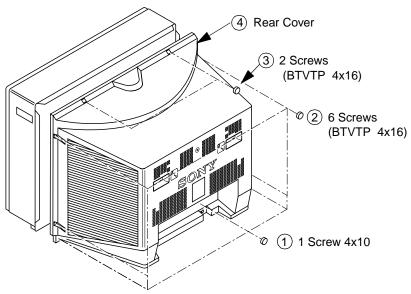
Here are some simple solutions to the problems which affect the picture and sound.

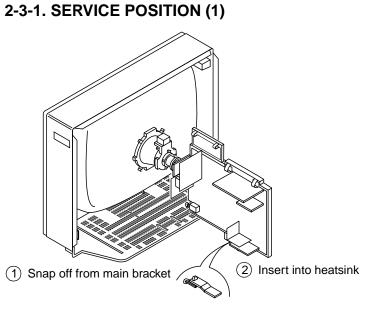
Problem	Solution
No picture (screen is dark), no sound .	<ul> <li>Plug the TV in.</li> <li>Press ① ■ on the TV. (If ① indicator ℍ is on, press ○ ③ or a programme number ④ on the Remote Commander.)</li> <li>Check the aerial connection.</li> <li>Check if the selected video source is on.</li> <li>Turn the TV off for 3 or 4 seconds then turn it on again using ① ■.</li> </ul>
Poor or no picture (screen is dark), but good sound	• Press MENU <b>10</b> to enter the 'PICTURE CONTROL' menu and adjust 'Contrast', 'Brightness' and 'Colour'.
Poor picture quality when watching an RGB video source.	•Press → <b>① □</b> repeatedly to select →.
Good picture but no sound	<ul> <li>Press ∠ + ② ■.</li> <li>If □¾ is displayed on the screen, press □¾ ①.</li> </ul>
No colour for colour programmes	• Press MENU <b>1</b> to enter the 'PICTURE CONTROL' menu, select 'Reset' then press OK <b>6</b> .
Remote Commander does not function.	•Replace the batteries.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

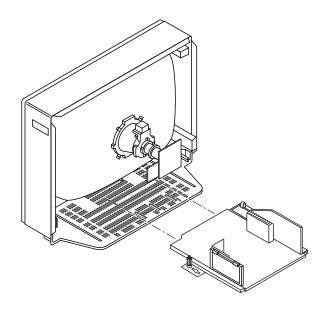
### **SECTION 2 DISASSEMBLY**

### 2-1. REAR COVER REMOVAL

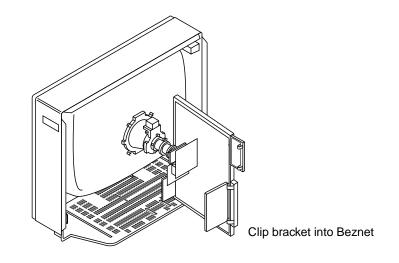




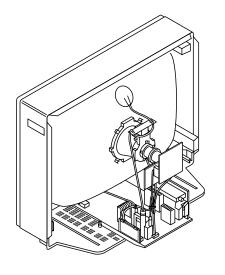
### 2-2. CHASSIS ASSY REMOVAL



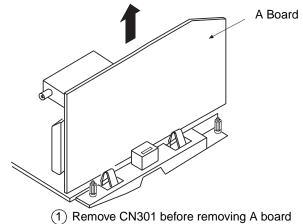
2-3-2. SERVICE POSITION (2)



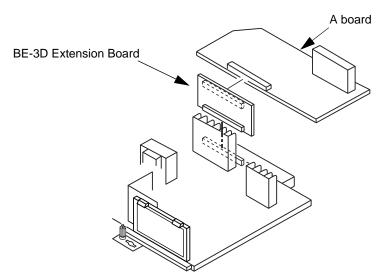
### 2-4. WIRE DRESSING



### 2-5. A BOARD REMOVAL



### 2-6. A EXTENSION BOARD



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Cushion

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.



separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

- To prevent damaging the surface of the anode-cap do not use sharp materials. Do not apply too great a pressure on the rubber, as this may cause damage to the
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter

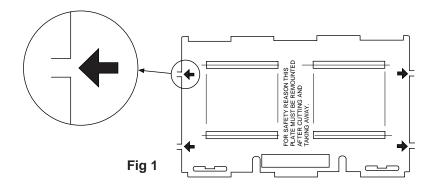


## REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

### (1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed circuit, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

**Note:** There are 5 plates fitted to the main bracket and secured by 4 or 6 gates. Only remove the necessary plate to gain access to the circuit board.





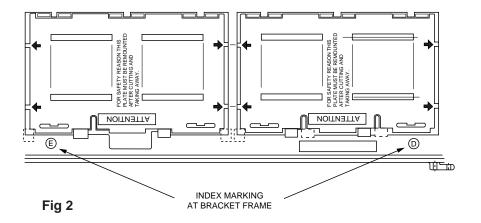
For safety reasons, on no account should the plates be removed and not refitted after servicing.

### (2) REFITTING THE PLATES

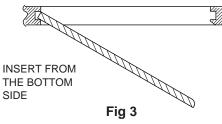
Because the plates differ in size it is important that the correct plates are refitted in their original location.

The plates are identified by markings A-B-C-D-E on their top side.

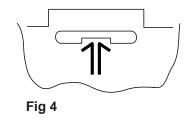
- 1. Identify the plate by locating its marking.
- 2. Turn the plate over noting where the marking is located.
- 3. Locate the corresponding marking indicated on the main chassis bracket. See Fig 2.
- 4. Refit the plate as indicated in Fig 3 with the markings located next to each other.







In the event of the plates requiring to be removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting out.



# SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast	80% [or remote control normal]
----------	--------------------------------

Brightness ..... 50%

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. White balance
- 3-4. Focus

**Note:** Test equipment required

- 1. Color bar/pattern generator.
- 2. Degausser.
- Oscilloscope.
- 4. Digital multimeter.
- 5. DC Power supply.

#### **Preparation:**

- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- Switch on the set's power and degauss with the degausser.

#### 3-1. BEAM LANDING

- Input an all white signal from the pattern generator.
   Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to Red.
- 3. Move the deflection yolk forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 3-3].
- 4. Move the deflection yolk forward and adjust so that the entire screen becomes Red. [See Fig.3-1]
- 5. Switch the raster signal to Blue, then to Green and verify the condition
- When the position of the deflection yolk has been determined, fasten the deflection yolk with the screws.
- 7. If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]

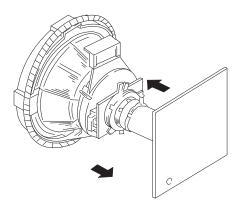


Fig. 3-1



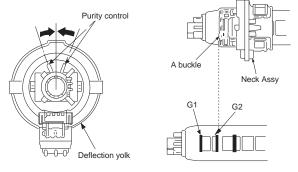
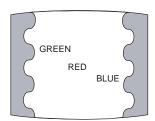


Fig. 3-3



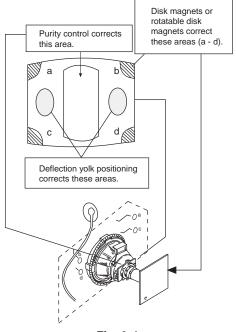


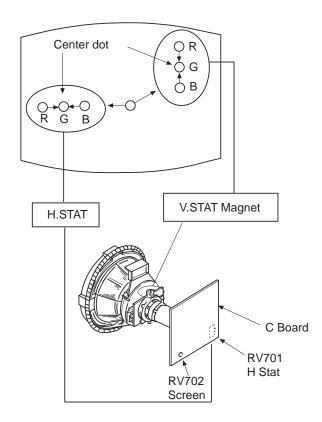
Fig. 3-4

### 3-2. CONVERGENCE

#### **Preparation:**

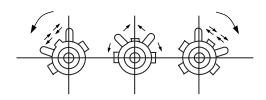
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

#### (1) Horizontal and vertical static convergence

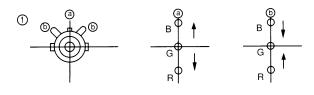


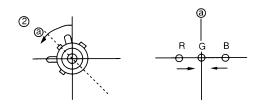
- [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- 2. [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below. [In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

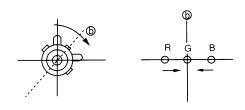
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

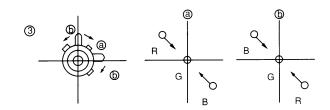


4. If the V.STAT magnet is moved in the direction of the a and b arrows, the Red, Green and Blue points move as indicated below.

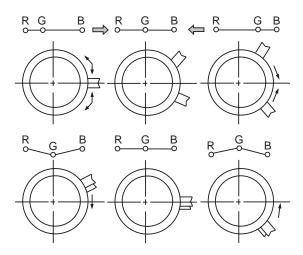








• Operation of the BMC (Hexapole) magnet.



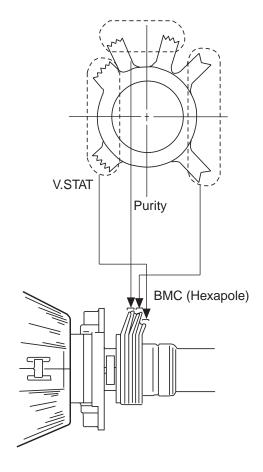
 The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment whilst tracking.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen (by moving the dots in the horizontal direction).

### (2) Dynamic convergence adjustment.

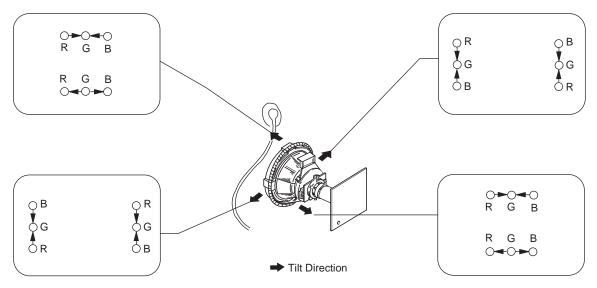
#### **Preparation:**

- Before starting this adjustment, adjust the horizontal and vertical static convergence.
- 1. Remove the deflection yolk spacer.



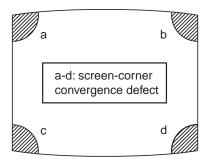
- Tilt the deflection yolk as indicated in the figure below and optimize the convergence.
- 3. Re-install the deflection yolk spacer.

**Note :** This adjustment will affect the geometry of the display, therefore adjust to obtain the optimum setting.

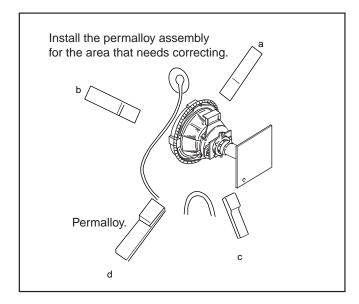


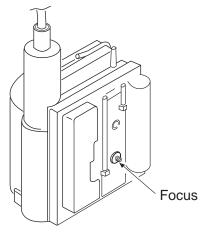
#### (3) Screen corner convergence.

• If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.









### 3-3. WHITE BALANCE

#### **G2 Setting**

- 1. Switch the TV set into AV mode [apply a cross-hatch signal].
- 2. Enter into the 'Service mode' and select 'Picture Control'.
- 3. Enter 'Picture Control' and select 'Personal' press OK.
- 4. Return to 'Picture Control' menu and select 'Reset'.
- 5. Measure the voltages on the 3 cathodes of the CRT, Kr,Kg and Kb using an oscilloscope with a 100:1 probe.
- 6. Connect the oscilloscope to the CRT cathode which recorded the highest voltage and adjust [RV702 SCREEN] to obtain a reading of 175V.

#### White balance adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Enter into the Service Mode.
- 3. Enter into the 'Picture Adjustment' service menu.
- 4. Select 'Sub contrast' and adjust to 7.
- Select the 'Green drive' and adjust so that the white balance becomes optimum.
- 6. Select the 'Blue drive' and adjust so that the white balance becomes optimum.
- 7. Press the 'TV' button on the remote commander to return to TV operation.

PICTURE ADJUSTI	MENT
AFC mode	1
REF position	2
SCP BGR	1
SCP BGF	1
Trap fo	0
Sub contrast	Adj
Sub colour	Adj
Sub brightness	Adj
Sub hue	Adj
Green drive	Adj
Blue drive	Adj
Green cutoff	Adj
Blue cutoff	Adj
Gamma	0
Pre / overshoot	0
Y delay	3

### **3-4. FOCUS**

- 1. Receive a television broadcast signal.
- 2. Normalise the picture setting.
- 3. Adjust the focus control on the flyback transformer for the best focus at the centre of the screen.

Bring only the centre area of the screen into focus, the magenta ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.

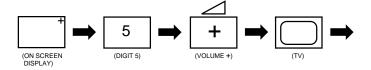
# SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. ELECTRICAL ADJUSTMENTS

Service adjustments to this model can be performed using the supplied Remote Commander RM-886.

#### **HOW TO ENTER INTO SERVICE MODE**

- Turn on the main power switch and enter into the stand-by mode.
- 2. Press the following sequence of buttons on the Remote Commander.



- 'TT--' will appear in the upper right corner of the screen.
  - Other status information will also be displayed.
- 3. Press 'MENU' on the remote commander to obtain the following menu on the screen.

TEST MEN	NU
> Picture A	adjustment
Geometr	у
Wide	
IC status	
MSP	
Current 7	ΓV status

- 4. Move to the corresponding adjustment using the button on the remote commander.
- 5. Press the + button to enter the selected adjustment.
- 6. Turn off the power to quit the service mode when adjustments have been completed.

PICTURE ADJUST	MENT
AFC mode	1
REF position	3
SCP BGR	1
SCP BGF	1
Trap fo	7
Sub contrast	Adj
Sub colour	Adj
Sub brightness	Adj
Green drive	Adj
Blue drive	Adj
Green cutoff	Adj
Blue cutoff	Adj
Gamma	0
Pre / overshoot	0
Y delay	5
D Pic	ON/OFF
D Colour	ON/OFF
DC Transfer	ON/OFF

GEOMETRY ADJU	STMENT - 4:3
V size	Adj
V position	Adj
S Correction	Adj
V Linearity	Adj
H size	Adj
H position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	1
EHT H	0
Lo Corn Pin	Adj
Up Corn Pin	Adj

WIDE ADJUSTME	NT - 4:3	
V Aspect	47	
V Scroll	25	
Upper V Lin	0	
Lower V Lin	0	
Left Blanking	1	
Right Blanking	11	

MSP	
AGC ON/OFF	ON
Constant gain CDB	0
FM prescale FMP	36
Zwei mono-st WHI	36
Zwei st-mono WLO	18
Zwei mono-bi WMH	36
Zwei bi-mono WLO	18
Time Zwei WML	41
Fawct limit	10
Fawct soll init FAW	12
Fawer tol	2
Nicam Err Max CCT	10
Nicam Err Min	0
Nicam Prescale NIP	97
Time Nicam	31
Carrier mute CRM	OFF
Audio clock ACO	HIZ
Scart prescale	25
Scart volume	64

IC STATUS (CXA207	6 / CXA2040)
CXA2076	
H lock	1
IKR	1
VNG	0
X-RAY	0
Colour system	3
CV1 sync	1
CXA2040	
Sync sep	1
S1 mode pin	01
S2 mode pin	01
TUNER	
Tuner status	01101011

TV STATUS BE3D	
Text system	C TEXT
Dolby	NO
Text language set	WEST/EAST/RUSSIAN
Menu language set	WEST/EAST/RUSSIAN
Destination	B/D/U/K/L/E/A/R
Scart 16:9	ON
RGB priority	ON
Ageing	OFF/ON
Size	29
Colour trap sw	SECAM/ALL
Velocity mod	ON/OFF
AFT STATUS	WINDOW/HIGH/LOW
Lumisponder Mode	OFF
Micro/Jungle	SDA30C263/CXA2076

#### **SUB BRIGHTNESS ADJUSTMENT**

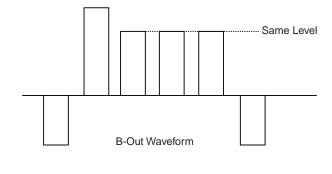
- 1. Input a Phillips pattern.
- 2. Set the picture control to minimum.
- 3. Enter into the 'Picture Adjustment' service menu.
- 4. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

#### **SUB CONTRAST ADJUSTMENT**

- Input a video that contains a small 100% area on a black background.
- 2. Set the picture control to maximum.
- 3. Connect an oscilloscope to Pin 3 of CN301 [A Board].
- 4. Enter into the 'Picture Adjustment' service menu.
- Adjust the 'Sub-contrast' data to obtain a black to white amplitude of 2.50V.

#### **SUB COLOUR ADJUSTMENT**

- 1. Receive a PAL colour bar video signal.
- 2. Connect an oscilloscope to Pin 3 of CN301 [A Board].
- 3. Enter into the 'Picture Adjustment' service menu.
- 4. Adjust the 'Sub-colour' data so that the Cyan, Magenta and Blue colour bars are of equal height as indicated below.



**Note:** The data indicated in the 'TV STATUS' table is dependant on destination, screen size and country.

### SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

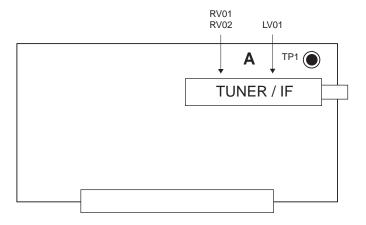
- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the 'IF Adjustment' service mode [i.e 'TT59'] to fix the I.F frequency to 39.9MHz.
- 3. Enter into the service mode and select 'Current TV status'.
- Adjust the I.F coil [LV01] until the 'AFT Status' indicates a 'Window' condition.

#### SYSTEM L BAND 1 I.F ADJUSTMENT

- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the 'IF Adjustment' service mode [i.e 'TT59'] to fix the I.F frequency to 34.2MHz.
- 3. Enter into the service mode and select 'Current TV status'.
- 4. Adjust the RV02 control until the 'AFT Status' indicates a 'Window' condition.

#### **TUNER AGC ADJUSTMENT**

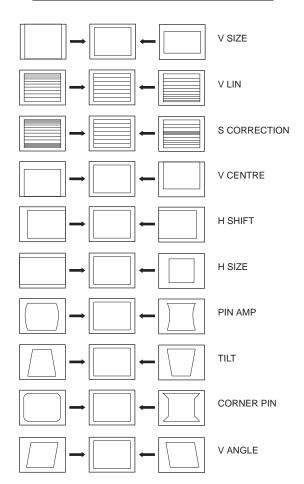
- Receive a signal of 63dBuV / 75 ohm terminated, via the tuner socket.
- 2. Measure the voltage at test point 1 [A Board].
- 3. Adjust RV01 control to obtain a voltage of 3.0V +/- 0.3V.



#### **DEFLECTION SYSTEM ADJUSTMENT**

- 1. Enter into the 'Geometry Adjustment' service menu.
- Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJU	JSTMENT
V size	Adj
V position	Adj
S Correction	Adj
V Linearity	Adj
H size	Adj
H position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	1
EHT H	0
Lo Corn Pin	Adj
Up Corn Pin	Adj



### 4-2. TEST MODE 2:

Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

Note: 'TT' modes 40 - 49 require the TV set to be in programme 59 before the command is accepted. Some test modes are dependant upon the model.

00	Carrier Test mode		
01	Picture maximum		
02	Picture minimum		
03	Volume 30%		
04	Volume 50%		
05	Volume 65%		
06	Volume 80%		
07	Ageing mode		
08	Set shipping conditions		
09	Reset language select menu on power up		
10	No function		
11	Clear & Disable OSD		
12	Enable OSD		
13	Scart 16:9 Enable / Disable		
14	Display TV status		
15	Picture reset		
16	Set 32" chassis (Wide models only)		
17	Set all AV labels to default		
18	RGB priority Enable / Disable		
19	Set all programme labels to default		
20	No function		
21	Sub picture adjustment (use red/yellow)		
22	Sub colour adjustment (use red/yellow)		
23	Sub brightness adjustment (use red/yellow)		
24	Destination U		
25	Destination D		
26	Destination B		
27	Destination K		
28	Destination L		
29	Destination E		
30	No function		
31	Destination A		
32	Destination R		
33	Sub Woofer Enable		
34	Sub Woofer Disable		
35	Set up trap switch		
36	Rotation test		
37	Set 25" (24" Wide models)		
38	Set 29" (29" Wide models)		
39	D/K Nicam enable		
40	No function		
41	Re-initialize the NVM		
	I.		

10	Defection Decrease and Section 20 MAN 20 mark for the section		
42	Default Programme info in NVM with manufacturing factory channel setup		
43	Default Geometry settings		
44	Default favourite pages to 100,101,102 and 103		
45	Switch off all channel locks		
46	Dealer commander mode (pending)		
47	Default MSP settings		
48	Restore NVM test byte Undo 'TT49'		
49	Delete NVM test byte Sets virgin NVM		
50	No function		
51	Text interface odd (NON INTERLACED MODE = 3)		
52	Text interface odd (NON INTERLACED MODE = 2)		
53	Auto picture ON		
54	Auto picture OFF		
55	Auto cut off ENABLE		
56	Auto cut off DISABLE		
57	AV3 ENABLE		
58	AV3 DISABLE (if TV Text) otherwise AV3 ENABLE		
59	Auto IF Display		
60	No function		
61	Dolby Pro-Logic ON		
62	Noise Left		
63	Noise Right		
64	Noise Centre		
65	Noise Surround		

66	DSP Bypass
67	D/K Nicam Disable
68	Diagnostics OFF
69	Diagnostics ON
70	No function
71	Lumisponder Curve 1
72	Lumisponder Curve 2
73	Jungle Select (CXA2000 or CXA2076)
74	Text H Position adjust
75	Picture reset
76	MSP BG filter enabled (h/w required)
77	Sound reset
78	MSP BG filter disabled (h/w required)
79	Wide set-up (Wide screen models only)
80	No function
81	Velocity mod ON
82	Velocity mod OFF
83	Picture Rise step 40ms
84	Picture Rise step 80ms
85	Picture Rise step 160ms
86	Picture Rise OFF
87	Select Shop Mode
88	Compact Text Acquisition Disable
89	Compact Text Acquisition Enable
90	No function
91	Sound Centre mode NORMAL
92	Sound Centre mode WIDE
93	Sound Centre mode PHANTOM
94	Toggle Compact Text Acquisition Delay Bit 0
95	Toggle Compact Text Acquisition Delay Bit 1
96	Toggle Compact Text Acquisition Delay Bit 2
97	Toggle Compact Text Acquisition Delay Bit 3
98	Toggle Compact Text Acquisition Delay Bit 4
99	Set test menu

The shaded test modes indicated in bold can set the delay byte to any value 0-31 which creates a (value x 20) mS delay. **Note:** Compact Text models only.

### 4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3D chassis is triggered in one of two ways: - 1: Busy busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy [Failure to do so will report with continuous flashing LED] and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED [Series of flashes which must be counted] See Table 1., non fatal errors are reported using this method.

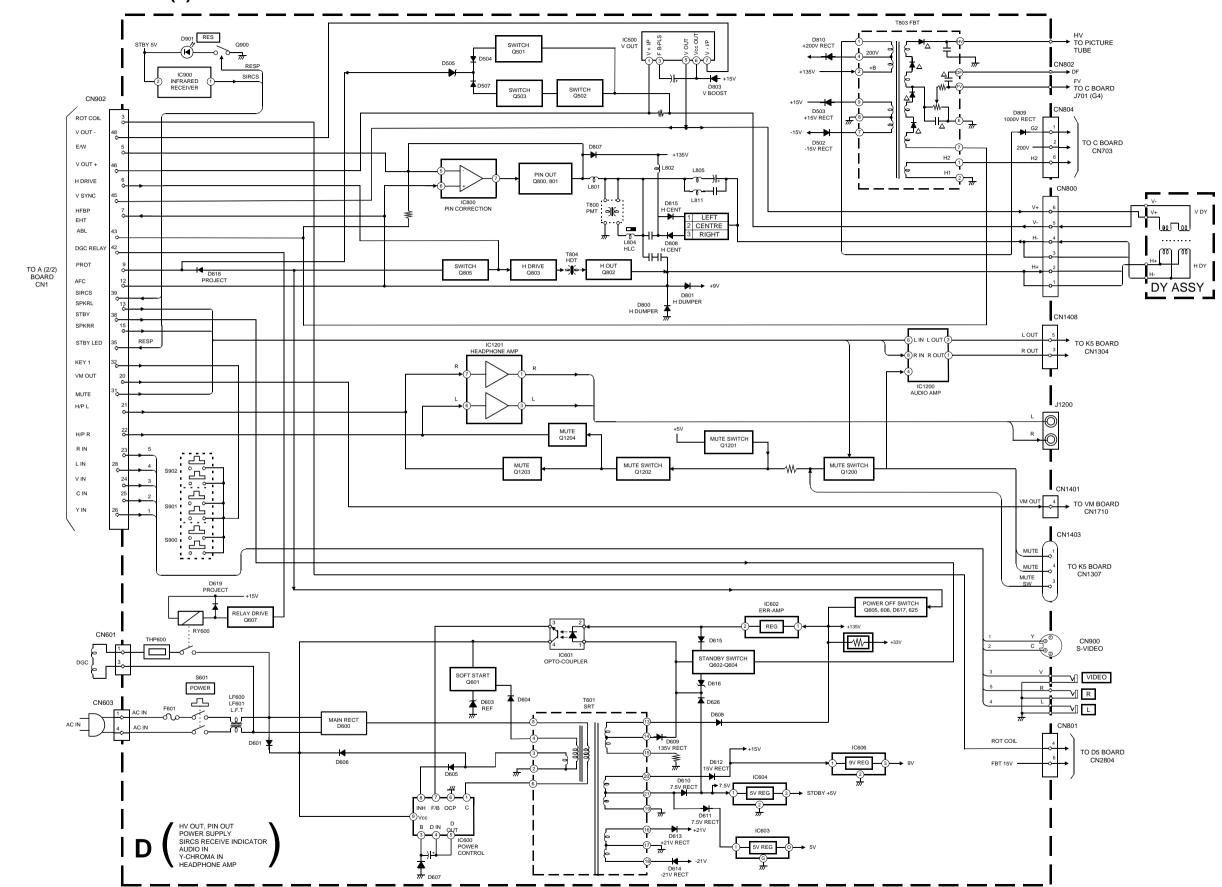
ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Protection circuit trip < ANY TIME >	02
IIC SCL LOW < POWER UP ONLY >	03
IIC SDA LOW < POWER UP ONLY >	04
IIC SDA & SCL LOW < POWER UP ONLY >	05
Jungle / Chroma controller no acknowledge < POWER UP ONLY >	06
Video Switch no acknowledge < POWER UP ONLY >	07
Tuner no acknowledge	08
MSP no acknowledge	09
NVM no acknowledge	10
M3L TXD Low < POWER UP ONLY >	11
M3L RXD Low < POWER UP ONLY >	12
M3L ENABLE Low < POWER UP ONLY >	13
M3L TXD & RXD Low < POWER UP ONLY >	14
Compact Text test fail < POWER UP ONLY >	15
AV switch cannot power on reset  < Chassis Initialisation >	16
Cannot initialise jungle ( after initial power on checked out OK ) - < Chassis initialisation >	17
NVM acknowledge fail after initialisation (STBY +5V same as micro!)	18
Multiple devices with no acknowledge < POWER UP ONLY >	19
Compact text run-time failure after power up check (+9V test)	20
AV SWITCH response failure after power up check (+9V test)	21
JUNGLE / CHROMA controller response failure after power up check (-9V test)	22
Compact text does not respond (-5V test)	23
MSP run-time failure < MAY NOT BE FATAL-DISPLAY ON ERROR READER >	24

M3L bus Clock low time out after data send ( run-time failure)	25
M3L bus Clock low time out after data send ( at power up check )	26
M3L bus Clock low time out after data send ( at initialisation )	27
DSP run-time failure < MAY NOT BE FATAL-DISPLAY ON ERROR READER >	28

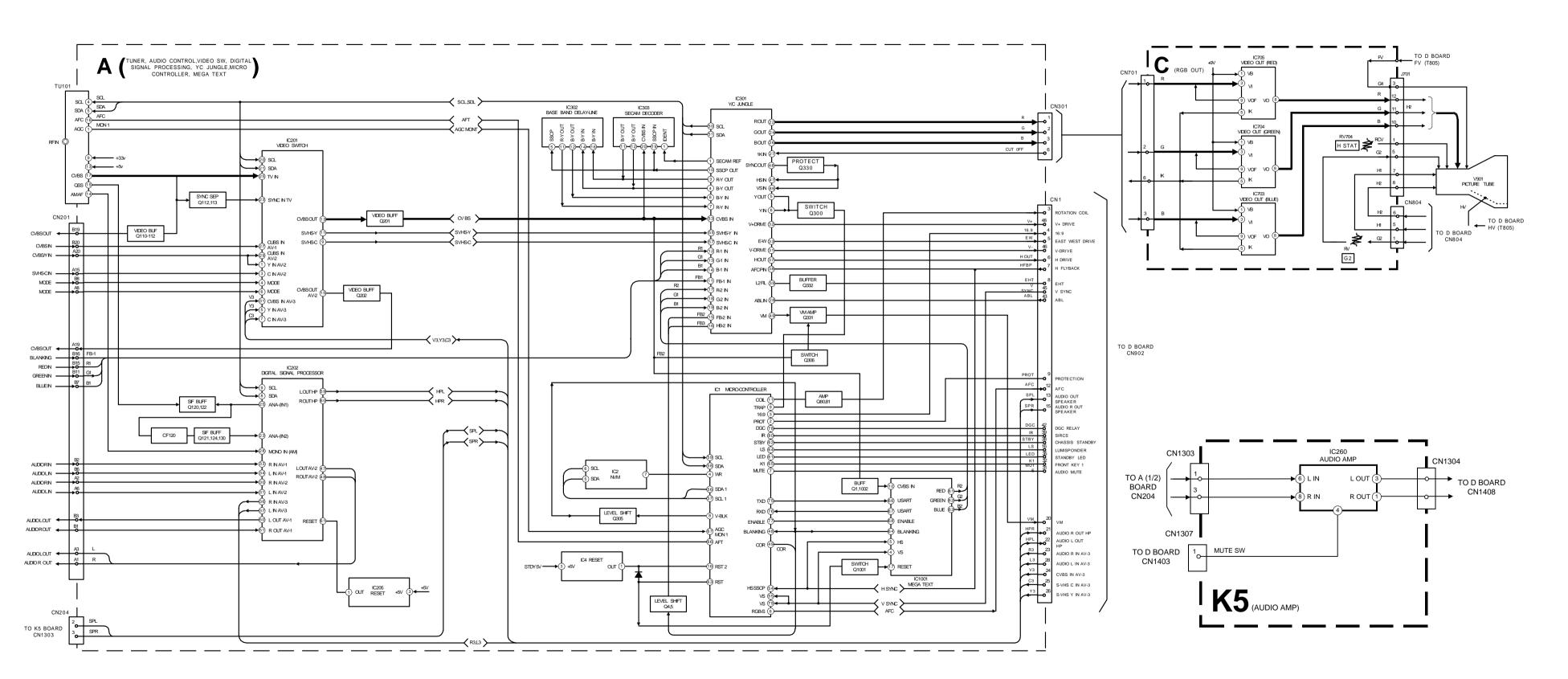
### Flash Timing Example: e.g. error number 3



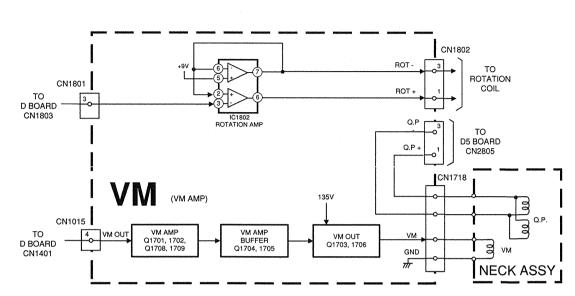
## **BLOCK DIAGRAM (1)**

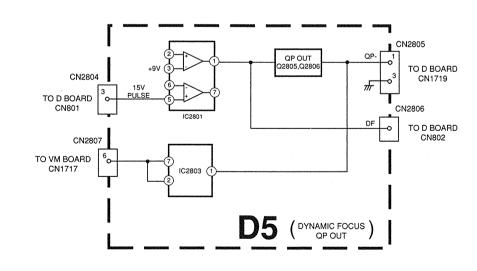


## **BLOCK DIAGRAM (2)**

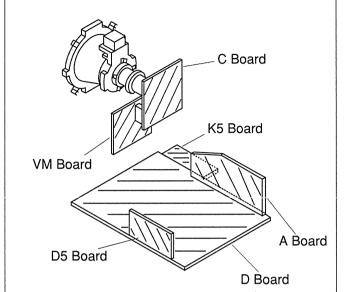


### **BLOCK DIAGRAM (3)**





### 5-2. CIRCUIT BOARD LOCATION



### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in μF unless otherwise noted.
   pF : μμF 50WV or less are not indicated except for
- electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms. k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- $\triangle$  : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- All voltages are in Volts.
  Readings are taken with a 10Mohm digital mutimeter.
  Readings are taken with a color bar input signal.
  Voltage variations may be noted due to normal production
- tolerences.
- 🗪 🗪 : B bus.
- : RF signal path.
- ; earth chassis.

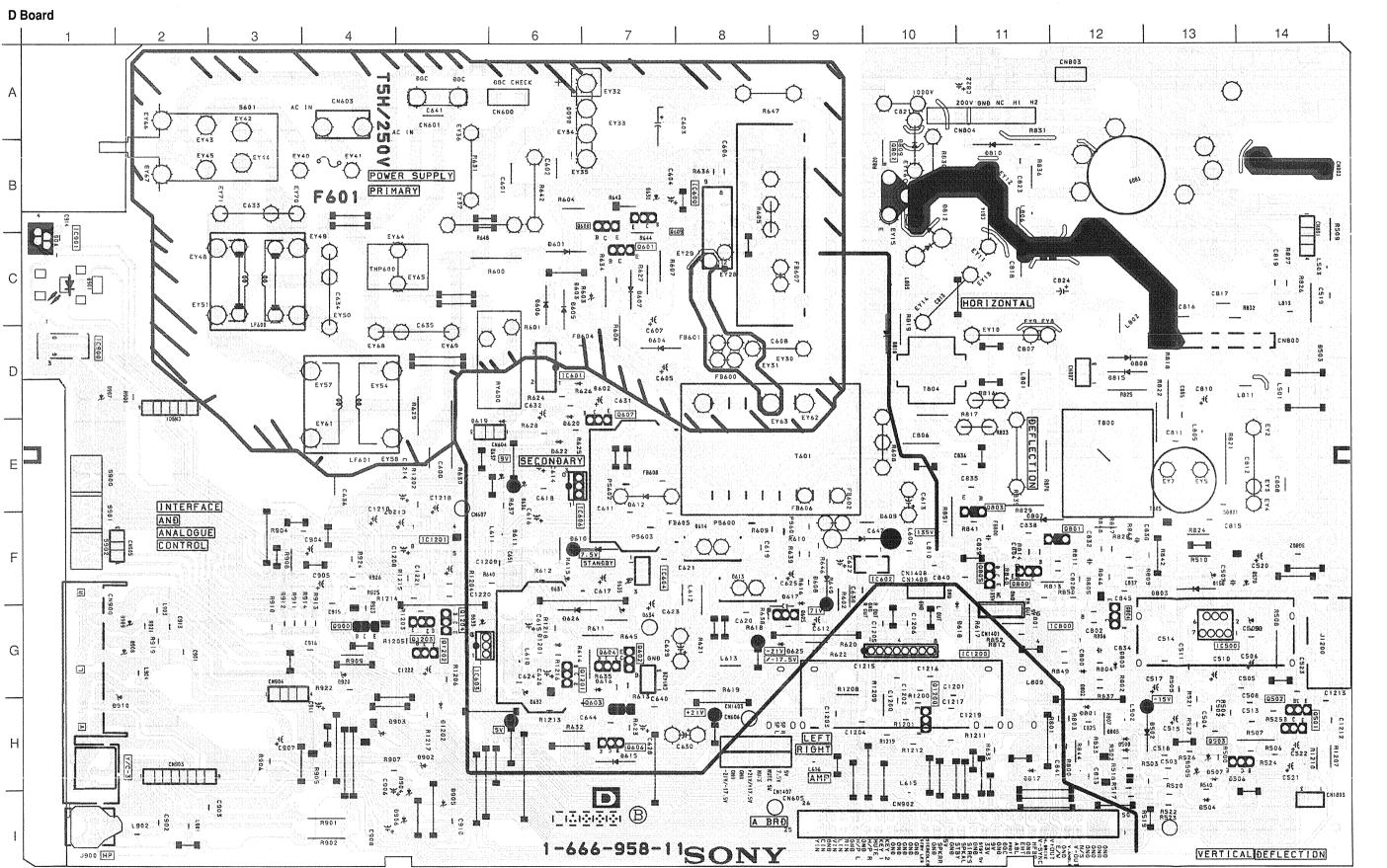
### Reference Information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

**Note:** The components identified by shading and marked  $\Delta$  are critical for safety. Replace only with the part numbers specified in the parts list.

**Note :** Les composants identifiés par une trame et par une marque △ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

HV OUT, PIN OUT, POWER SUPPLY, SIRCS RECEIVE INDICATOR, AUDIO IN, Y-CHROMA IN, HEADPHONE AMP

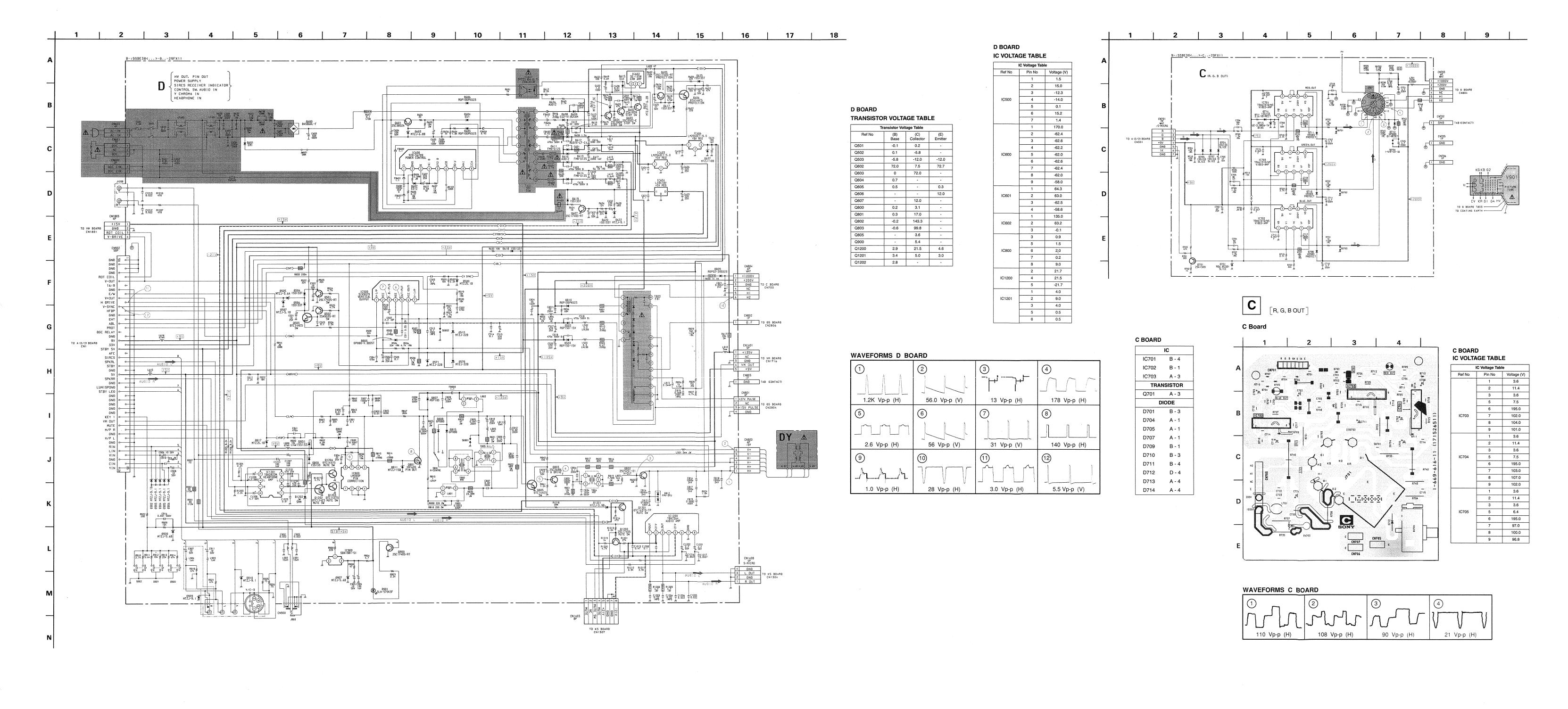


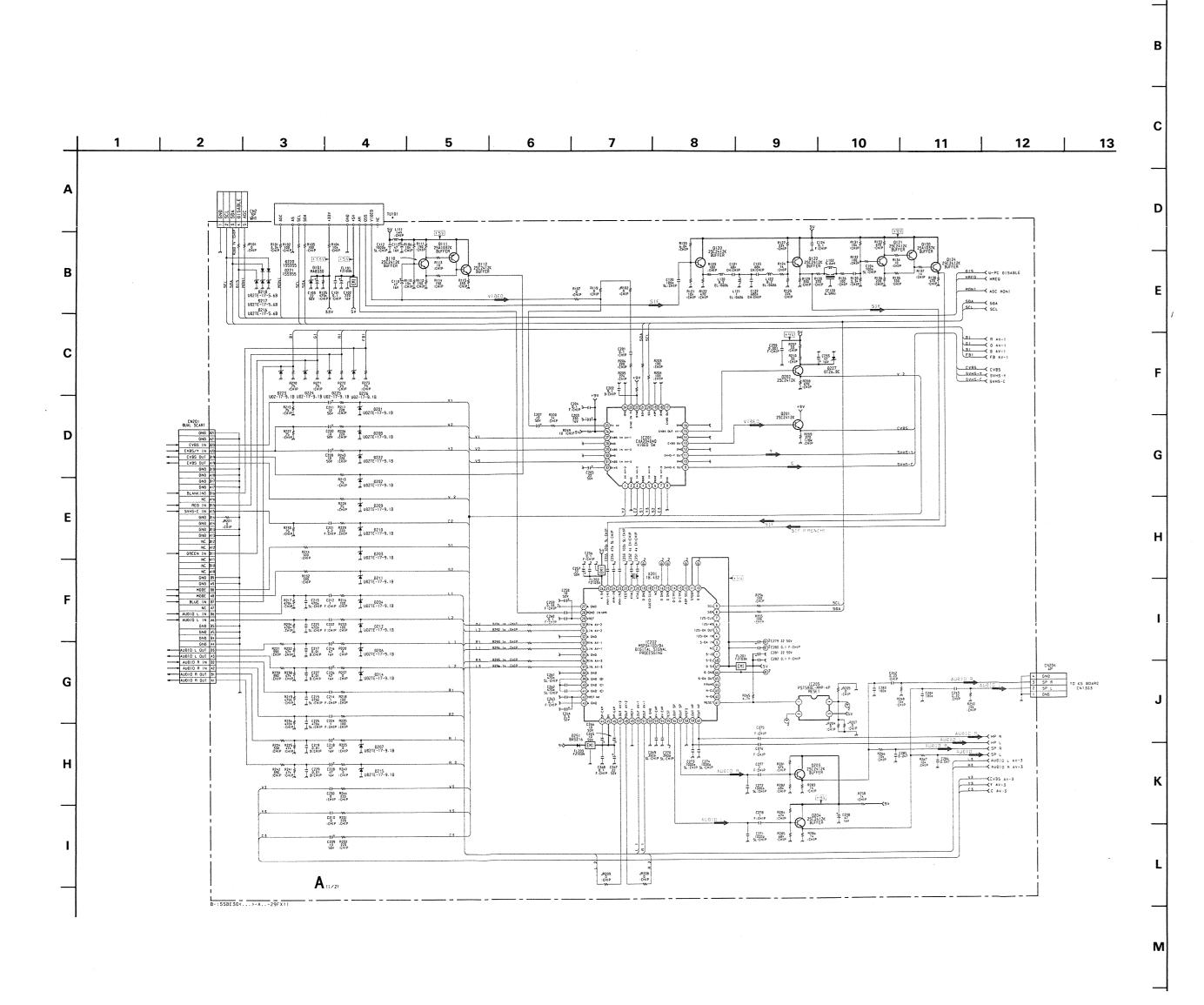


The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

#### D BOARD

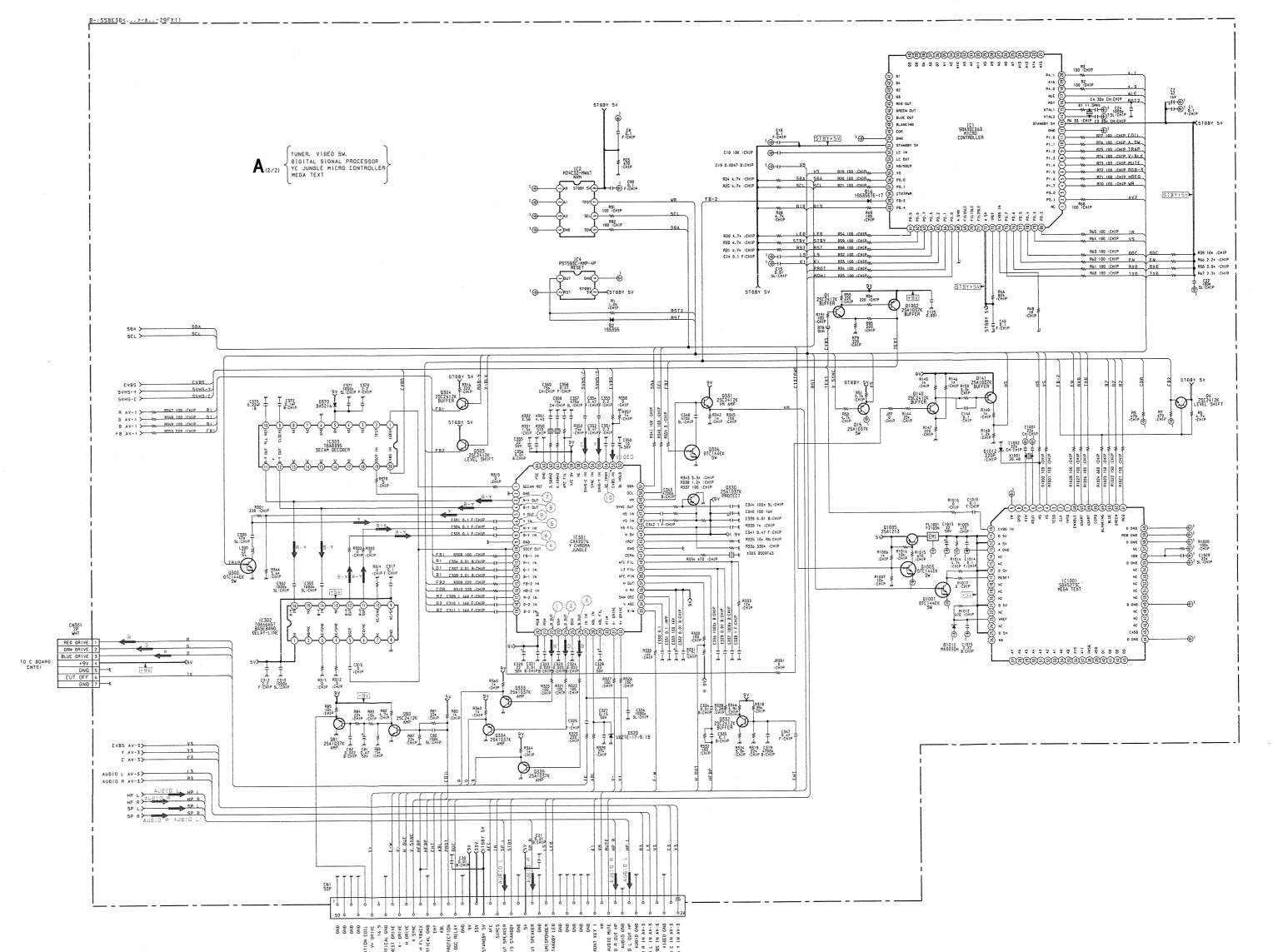
1		٥.	-	
IC500	G - 13	D600	A - 7	
IC600	B - 8	D601	C - 6	
IC601	D - 6	D603	C - 7	
IC602	F - 10	D604	D - 7	
IC603	G - 5	D605	C - 6	
IC604	F - 7	D606	C - 6	
IC606	E - 6	D607	C - 7	
IC800	F - 12	D608	F - 9	
IC900	D - 1	D609	F - 9	
IC1200	G - 10	D610	F - 7	
IC1201	F - 5	D611	F - 6	
		D612	E - 7	
TRAN	SISTOR	D613	F - 8	
Q501	H - 14	D614	F - 8	
Q502	H - 14	D615	H - 7	
Q503	H - 14	D616	G - 7	
Q601	C - 7	D617	F-9	
Q602	G - 7	D618	F - 11	
Q603	H - 7	D619	E - 6	
Q604	G - 7	D620	E - 6	
Q605	F-9	D622	E - 6	
Q606	H - 7	D625	G - 9	
Q607	D - 7	D626	G - 6	
Q800	F - 12	D631	F-6	
Q801	E -12	D800	F - 12	
Q802	A - 11	D801	G - 12	
Q803	E - 11	D802	G - 12	
Q805	F - 10	D803	F - 13	
Q900	G - 4	D807	E - 12	
Q1200	H - 10	D808	E - 14	
Q1201	G - 6	D809	A - 14	
Q1202	G - 5	D810	A - 13	
Q1203	G - 5	D812	B - 11	
Q1204	G - 5	D815	E - 14	
DIODE		D817	H - 11	
D500	H - 12	D901	C - 1	
D502	H - 13	D902	1 - 5	
D503	1-14	D903	H - 4	
D504	H - 11	D904	H - 5	
D505	H - 13	D905	1 - 5	
D506	I - 14	D906	1 - 5	
D507	H - 13	D1201	G - 6	





# A BOARD \* MARK

Ref	Disposit Markey	29FX11A	29FX11B	29FX11D	29FX11E	29FX11K	29FX11R	29FX11U
TU1	101	TUVIF (AEP)	TUVIF (FR)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (UK)
-					<u> </u>			



# A (1/2) BOARD

Ref No		IC Voltage Tab	le
IC201	Ref No	Pin No	Voltage (V
IC201 22 4.9 23 4.4 24 0 25 4.4 26 8.8 32 4.4 4 2.8 6-7 0.1 8 3.0 9 3.6 11 4.7 13 4.7 20-21 2.4 23 0.2 1C202 25 1.5 26 4.8 28 3.8 29 2.6 39-42 3.8 44 7.1 45 8.0 46 7.1 47-48 3.8		13	4.4
C201   22   4.9     23   4.4     24   0     25   4.4     26   8.8     32   4.4     4   2.8     6 - 7   0.1     8   3.0     9   3.6     11   4.7     13   4.7     20 - 21   2.4     23   0.2     25   1.5     26   4.8     28   3.8     29   2.6     39 - 42   3.8     44   7.1     45   8.0     46   7.1     47 - 48   3.8		15	4.4
IC201 22 4.9 23 4.4 24 0 25 4.4 26 8.8 32 4.4 4 2.8 6-7 0.1 8 3.0 9 3.6 11 4.7 13 4.7 20-21 2.4 23 0.2 1C202 25 1.5 26 4.8 28 3.8 29 2.6 39-42 3.8 44 7.1 45 8.0 46 7.1 47-48 3.8		20	3.5
23		21	2.7
24	IC201	22	4.9
25		23	4.4
1C202 25 1.5 26 4.8 28 3.0 9 3.6 11 4.7 13 4.7 20 - 21 2.4 23 0.2 1C202 25 1.5 26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		24	0
10202		25	4.4
4   2.8   6-7   0.1   8   3.0   9   3.6   11   4.7   13   4.7   20-21   2.4   23   0.2   25   1.5   26   4.8   28   3.8   29   2.6   39-42   3.8   44   7.1   45   8.0   46   7.1   47-48   3.8		26	8.8
10202   6-7		32	4.4
8   3.0   9   3.6   11   4.7   13   4.7   20 - 21   2.4   23   0.2   25   1.5   26   4.8   28   3.8   29   2.6   39 - 42   3.8   44   7.1   45   8.0   46   7.1   47 - 48   3.8		4	2.8
9 3.6 11 4.7 13 4.7 20 - 21 2.4 23 0.2 25 1.5 26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		6-7	0.1
11 4.7 13 4.7 20 - 21 2.4 23 0.2 25 1.5 26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		8	3.0
13 4.7 20 - 21 2.4 23 0.2 25 1.5 26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		9	3.6
20 - 21 2.4 23 0.2 25 1.5 26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		11	4.7
23 0.2 25 1.5 26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		13	4.7
1C202 25 1.5 26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		20 - 21	2.4
26 4.8 28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		23	0.2
28 3.8 29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8	IC202	25	1.5
29 2.6 39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		26	4.8
39 - 42 3.8 44 7.1 45 8.0 46 7.1 47 - 48 3.8		28	3.8
44 7.1 45 8.0 46 7.1 47 - 48 3.8		29	2.6
45 8.0 46 7.1 47 - 48 3.8		39 - 42	3.8
46 7.1 47 - 48 3.8		44	7.1
47 - 48 3.8		45	8.0
		46	7.1
53 - 54 3.8		47 - 48	3.8
		53 - 54	3.8

### A (1/2) BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table										
Ref No	(B) Base	(C) Collector	(E) Emitter							
Q110	1.8	8.2	1.2							
Q112	1.5	8.8	0.8							
Q113	1.8	-	-							
Q114	5.4	6.0	-							
Q120	84.3	8.8	3.7							
Q121	1.5	5.4	0.9							
Q122	5.4	8.8	4.7							
Q124	-	8.8	-							
Q201	4.4	8.8	3.7							
Q202	4.4	8.8	3.7							

## A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table									
Ref No	(B) Base	(C) Collector	(E) Emitter						
Q1	3.7	4.8	3.1						
Q4	0.1	4.8	-						
Q15	-	4.3	-						
Q80	2.6	2.2	-						
Q81	2.4	-	3.0						
Q304	-	4.8	-						
Q305	-	4.8	-						
Q330	4.5	-	5.1						
Q331	6.3	8.8	5.7						
Q332	3.1	8.8	2.5						
Q1001	4.4	-	-						

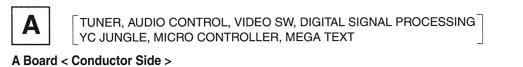
TO 8 BOARS CN902

#### WAVEFORMS A BOARD

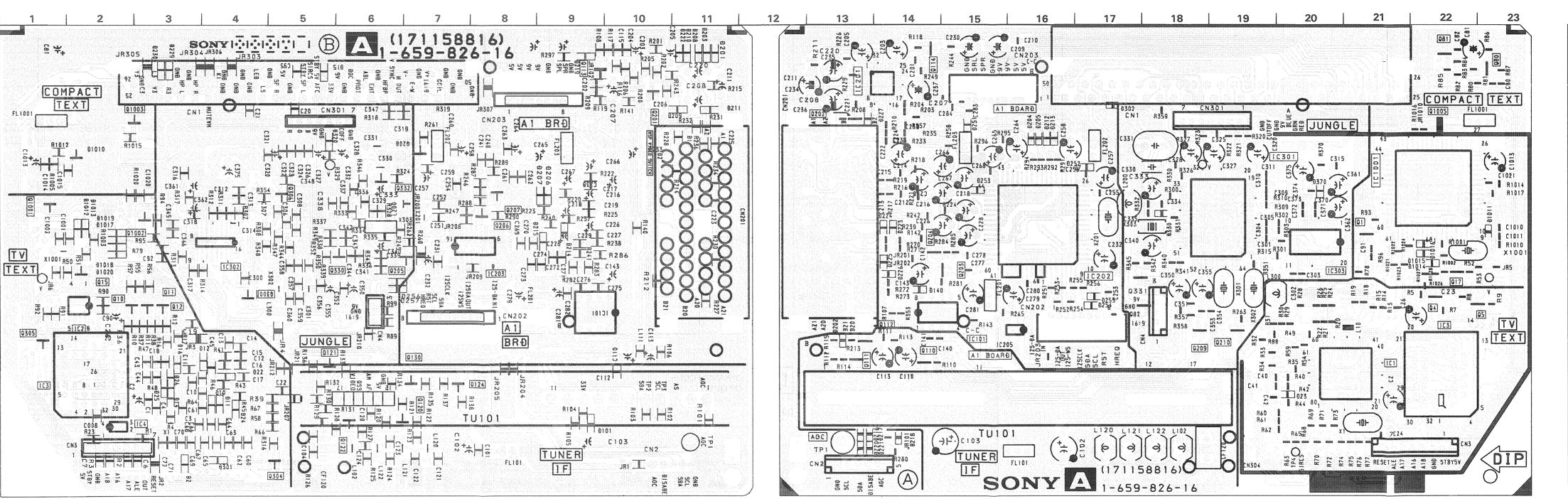
WAVEFURINS A BU	AND			
1	2	③ PAL/SECAM	③ NTSC	4
				ton, Total
3.5 Vp-p (H)	3.0 Vp-p (H)	3.0 Vp-p (H)	2.3 Vp-p (H)	5.1 Vp-p (H)
5	6	7 PAL/NTSC	7 SECAM	8 PAL
1.0 Vp-p (H)	1.4 Vp-p (H)	0.6 Vp-p (H)	0.5 Vp-p (H)	0.8 Vp-p (H)
8 SECAM	8 NTSC	9 PAL/SECAM	9 NTSC	10
	HWHWHW	Jana Jana	and have the formal have	
1.5 Vp-p (H)	0.9 Vp-p (H)	0.5 Vp-p (H)	0.4 Vp-p (H)	1.0 Vp-p (H)

### A (2/2) BOARD IC VOLTAGE TABLE

IC Voltage Table												
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)				
	2	3.6	<b> </b>	6	5.0	IC301	61	50				
	3 - 4	4.8		7 - 8	5.4		62	7.6				
	5	0.5		10	0.6		1	4.8				
	7	4.8		12 - 14	5.4		5	0.7				
	9	4.8		16	4.0	IC302	9	4.8				
	11	2.4		17 - 19	5.4		11 - 12	3.0				
	13	4.8		20	8.8		14	1.3				
	14 - 15	2.3		22 - 23	2.2		16	1.3				
	16 - 17	4.8		24	2.0		5	8.0				
	48	4.0		25	2.4		3.2	10				
	51	4.8	IC301	26	2.0		11	5.6				
	52 - 53	2.4		27	4.0	IC303	0	19				
	54	0.7		28	6.6		20	3.7				
	55	0.2		29	8.8			4	0.2			
	56 - 57	4.8		31 - 33	3.0		5	0.7				
IC1	58	2.8		34	4.0		4	0.2				
	59	3.5		35	4.6		5	0.7				
	60	2.4		36	8.8		6	1.7				
	62	0.7		37	3.1		7	1.8				
	63	4.4		38	3.4		10	0.4				
	65	4.8		39	5.3		11 - 12	4.8				
	66	2.1		40	4.2		16	4.8				
	67	2.0		41	2.3		17	0				
	69 - 71	2.3		43	1,7	IC1001	21	4.8				
	72	4.8		44	8.8		23	3.0				
	73	1.5		45	2.5		25	4.8				
	74	1.2		46	3.9		56	0				
	75 - 77	4.8	]	47	3.0		61	1.3				
	79	0.2		48	4.4		62 - 63	1.4				
	80	4.8		49	6.3		64	0				
IC2	5 - 8	4.8		50 - 51	0.1		66	4.6				
IC4	1	4.8		53	3.9		67	4.7				
	3	4.8		54	5.0		68	4.0				
IC301	1	1.5		55 - 56	4.2							
	3 - 4	5.6		58 - 59	8.8							
	5	3.6		60	5.3							

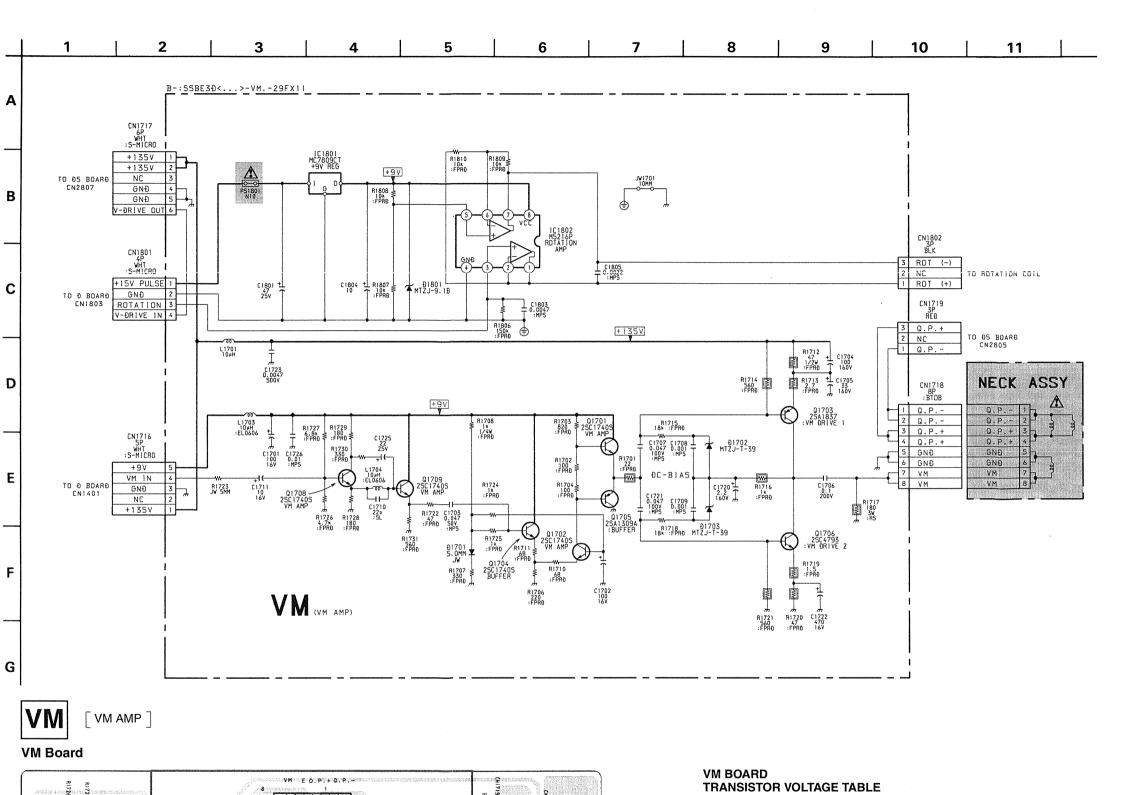


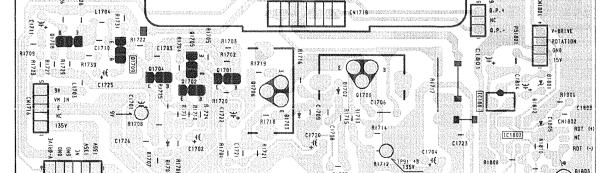
### A Board < Component Side >



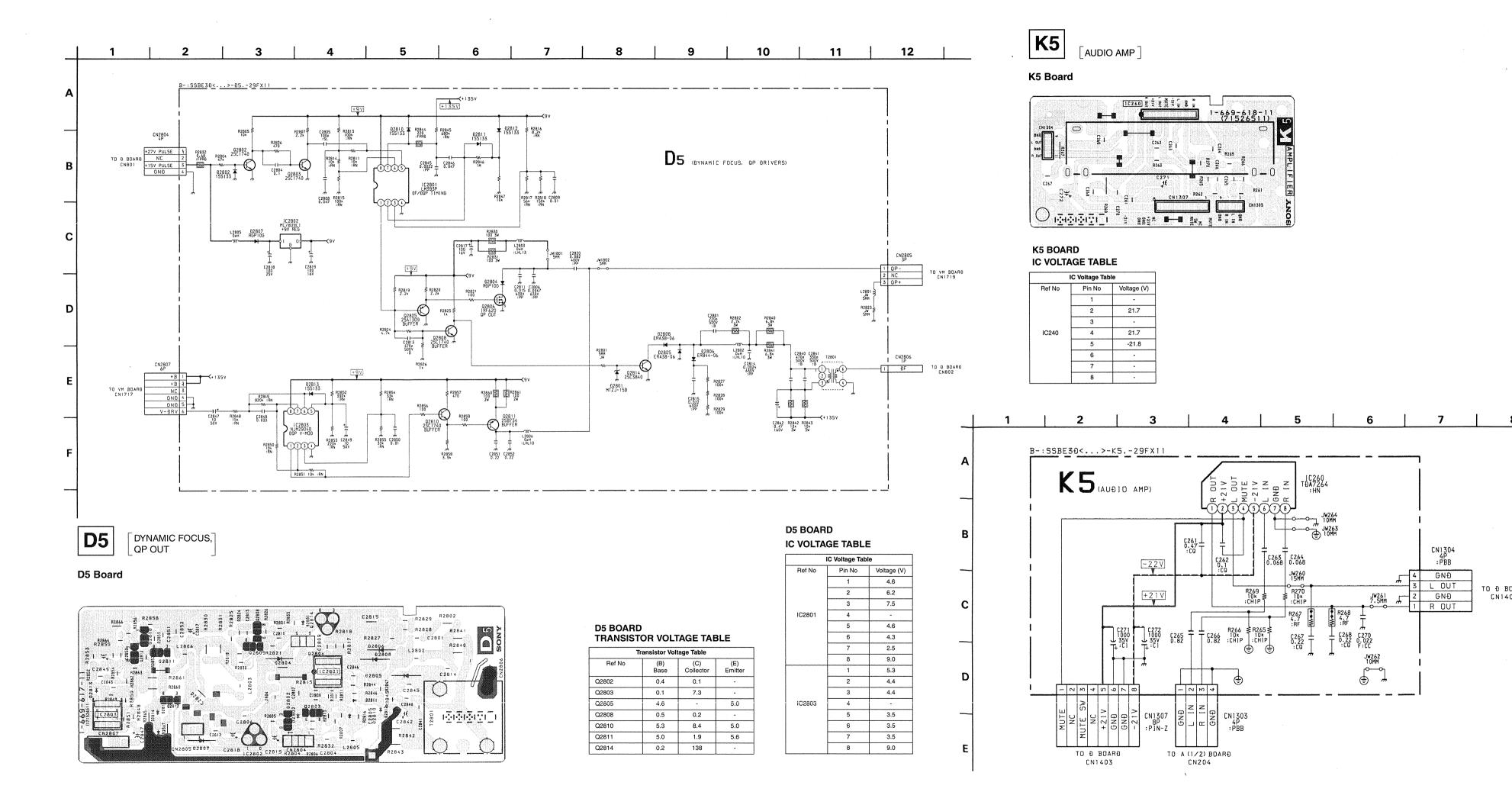
# A BOARD

A BOARD			
	IC	Q1002	C - 3
IC1	F - 21	Q1003	D - 14
IC2	E-2	DIO	DE
IC4	G-2	D2	G - 3
IC201	A - 14	D101	F-9
IC202	C - 16	D201	A - 11
IC301	C - 19	D202	E - 13
IC302	D - 4	D203	A - 11
IC303	D - 21	D204	B - 16
IC1001	G - 14	D206	C - 9
TRAN	ISISTOR	D207	C - 9
Q1	D - 21	D208	A - 11
Q4	E - 22	D209	B - 11
Q15	D - 2	D210	A - 11
Q80	A - 23	D211	B - 11
Q81	A - 22	D212	B - 16
Q110	F - 14	D214	D - 9
Q111	E - 14	D215	D - 9
Q112	E - 14	D216	G - 14
Q120	F-7	D217	G- 14
Q121	F-5	D218	G - 14
Q122	F-6	D220	G - 14
Q124	F - 7	D221	D - 14
Q130	F-7	D222	D - 14
Q201	B - 10	D223	D - 14
Q202	B - 13	D224	D - 14
Q203	D - 15	D225	D - 14
Q204	D - 15	D226	D - 14
Q300	E - 4	D227	B - 14
Q304	G - 5	D251	B - 15
Q305	E - 1	D320	C - 5
Q306	C - 5	D370	C - 21
Q330	D - 6	D1010	C - 10
Q331	D - 18		
Q332	C - 6		

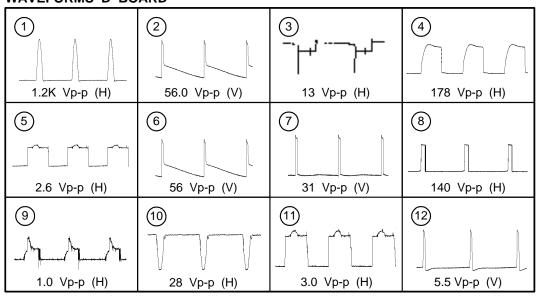




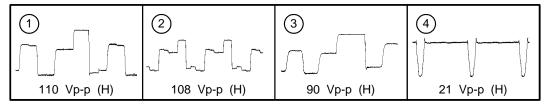
1	ransistor Vol	tage Table		
Ref No	(B) Base	(C) Collector	(E) Emitter	
Q1701	2.5	8.8	1.8	
Q1702	2.5	5.5	1.8	
Q1703	134.3	71.8	134.8	
Q1704	5.5	8.8	4.8	
Q1706	1.0	71.8	0.4	
Q1707	0.7	-	-	
Q1708	2.9	6.6	2.2	
Q1709	2.2	8.8	1.5	
Q1840	0.6	-	-	



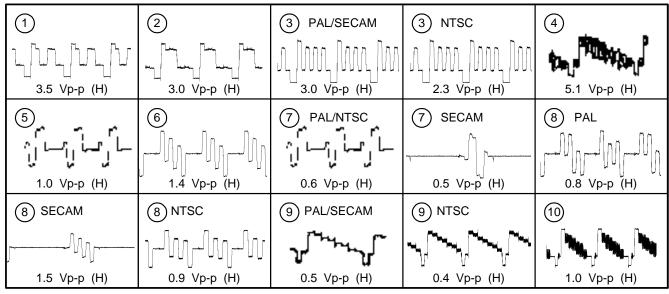
#### WAVEFORMS D BOARD



#### **WAVEFORMS C BOARD**

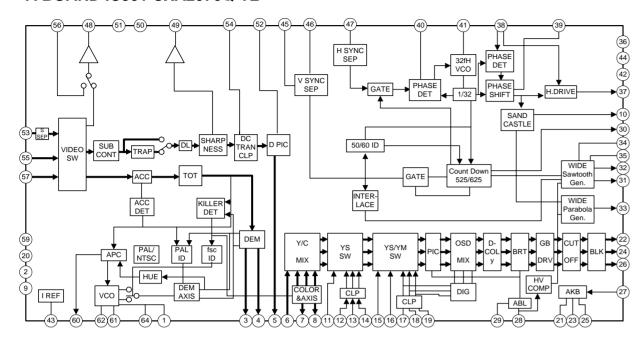


#### **WAVEFORMS A BOARD**



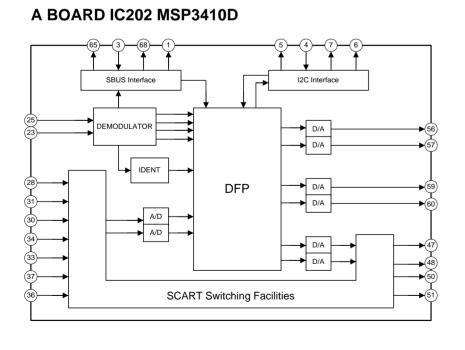
# IC BLOCK DIAGRAMS

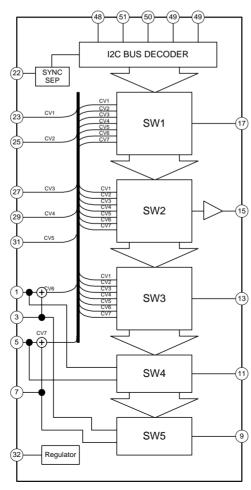
#### A BOARD IC301 CXA2076Q-TL



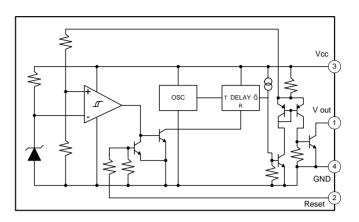
67

### A BOARD IC201 CXA2040AQ

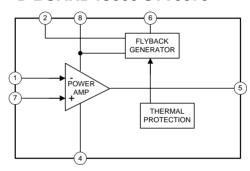




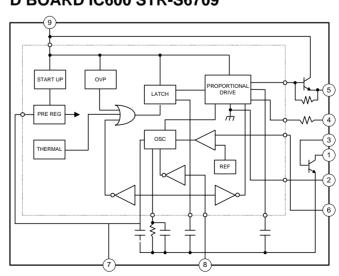
### A BOARD IC4 PST593C



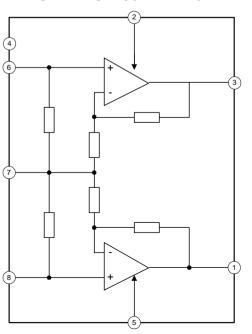
# D BOARD IC500 STV9379



### **D BOARD IC600 STR-S6709**



### D BOARD IC1200 TDA7264



68

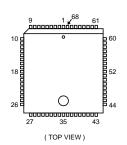
#### **5-4 SEMICONDUCTORS**

CXA2040Q-T4

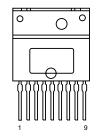
88888888 ш 88888888

(TOP VIEW)

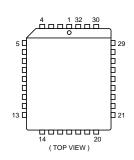
MSP3410D-PS-B4-T



STR-S6709

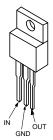


TMS27PC020-15FMBE201

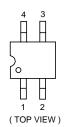


L4941BV TEA7605

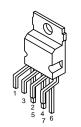
LM393P M5216P TDA2822M μΡC393C



PST593C-MMP-4P



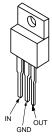
STV9379



BF421L-AMMO JA101TP-Q 2SA733-K

2SA933AS 2SA933S 2SA1091-O 2SC3502-E 2SC3601-E 2SC2808STP-R

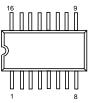


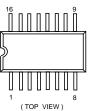


SBX1981-51



TDA4665T-T





DTA144ES DTC114ES DTC143TS DTC144ES 2SC1740S-RT



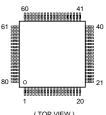
LM2940CT-5.0

LM2940CT LM2940T-9.0

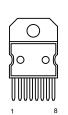
MCT7809CT

NJM78M09FA μPC2405HF

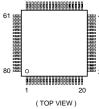
SDA5273M-CP-GEG



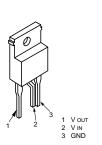
TDA7264



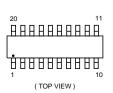




SE135N

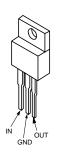


TDA8395T

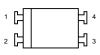


DTC144EK 2SA1037K 2SA1162-G 2SC2412K





#### TLP721(D4-)



#### AU-01Z-V1 EG-1Z-V1 EGP20G EL1Z EM1-V1

EU-1-V1

EU2A

EU2-V1

FML-G12S GP08D HSS83TD RGP02 RGP10GPKG23 ERB44-06TP1 RGP15GPKG23

RU3YX-V1

RU4AM-T3

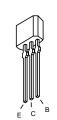
RU4DS

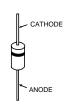
ERA38-06TP1 MTZJ-39 MTZJ-3.6A RD3.9ESB2 MTZJ-3.9B RD5.1ESB2 MTZJ-5.1B RD5.6ESB2 MTZJ-5.6B RD6.2ESB2 MTZJ-6.2BMTZJ-6.8C RD6.8ESB2 RD7.5ESB2 MTJ-7.5C MTZJ-9.1 RD10ESB2

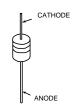
RD39ES-B2

1SS133T-77

2SC2785-HFE





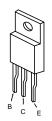


SLA-570KT3F

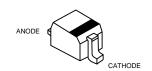
MTZJ-T-77-9.1A

MTZJ-10

2SA1837

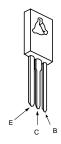


BAS216 MA8330 1SS355 DTZ6.8C UDZ-TE-17-5.6B DTZ9.1 DTZ33B UDZ-TE-17-9.1B

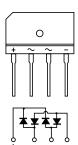




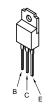
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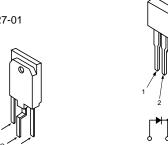
D4SB60L



2SC4793



FMS-3FU



# SECTION 6 EXPLODED VIEWS

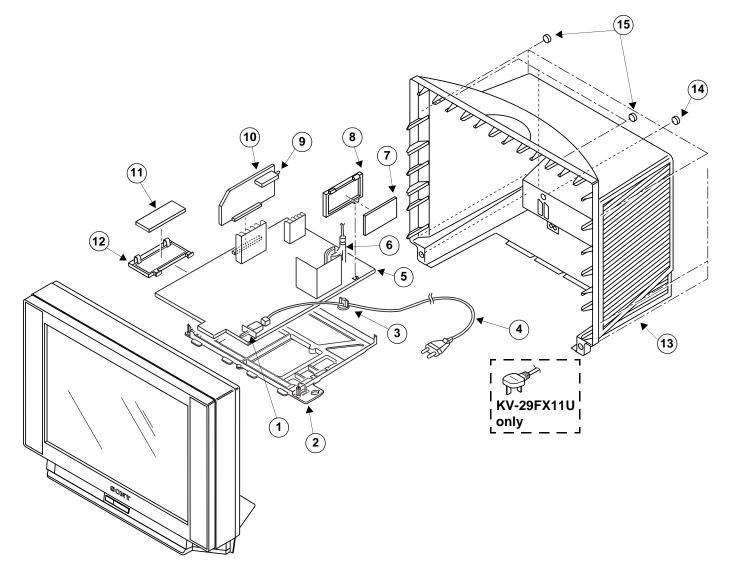
#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

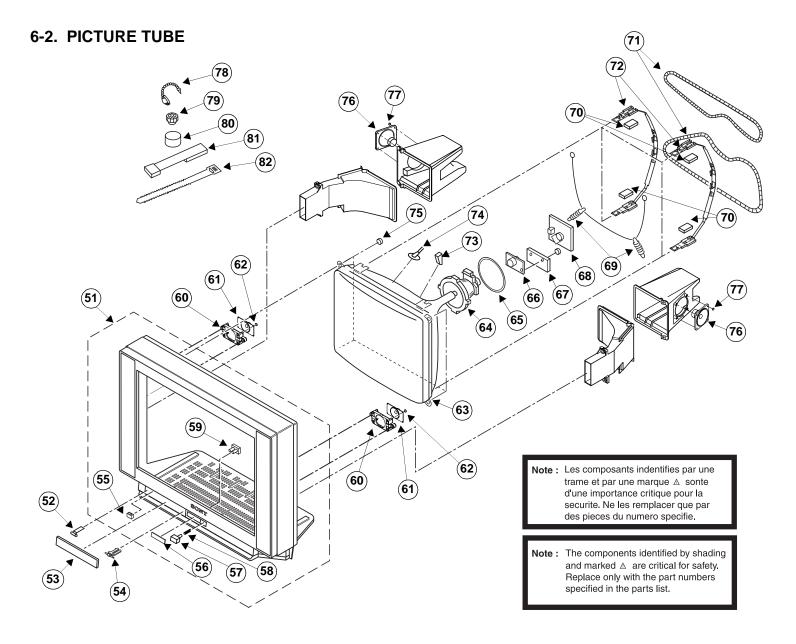
 Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked ∆ are critical for safety, Replace only with the part numbers specified in the parts list.

#### 6-1. CHASSIS



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1 🛆	1-571-433-21	SWITCH, PUSH (AC POWER)			1-693-340-11	TUNER/VIF (FR) (KV-	29FX11B)
2	*4-203-315-41	BRACKET, MAIN			1-693-339-11	TUNER/VIF (UK) (KV-	29FX11U)
3	*4-202-531-01	AC CORD LOCK (SC)		10	*A-1632-783-A	A BOARD, COMPLETE (	KV-29FX11A)
4 🛆	1-765-286-11	CORD POWER (KV-29FX11A/	29FX11B/29FX11D/		*A-1632-782-A	A BOARD, COMPLETE (	KV-29FX11B)
		KV-29FX11E/	29FX11K)		*A-1632-769-A	A BOARD, COMPLETE (	KV-29FX11D)
Δ	1-574-062-61	CORD POWER (WITH CONNEC	TOR) (KV-29FX11R)		*A-1632-784-A	A BOARD, COMPLETE (	KV-29FX11E)
Δ	1-776-204-11	CORD POWER (FILTER) (KV	-29FX11U)		*A-1632-785-A	A BOARD, COMPLETE (	KV-29FX11K)
5	*A-1642-232-A	D BOARD, COMPLETE			*A-1632-786-A	A BOARD, COMPLETE (	KV-29FX11R)
6 △	1-453-269-11	TRANSFORMER ASSY, FLYBA	CK (NA-4511/U2B4)		*A-1632-781-A	A BOARD, COMPLETE (	KV-29FX11U)
7	*A-1640-307-A	D5 BOARD, COMPLETE		11	*A-1649-022-A	K5 BOARD, COMPLETE	
8	*4-204-206-01	BRACKET, D5		12	*4-204-189-01	BRACKET, K5	
9	1-693-338-11	TUNER/VIF (AEP)		13	4-204-188-01	COVER, REAR	
		(KV-29FX11A/29FX11D/29F	X11E/29FX11K/	14	7-685-904-21	SCREW +PTPWH 4X10 T	YPE 2
		KV-29FX11R)		15	4-039-358-01	SCREW (4X16), (+) BV	TAPPING



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.		PART.NO DESCRIPTION		REMARK
51	X-4200-386-1	BEZNET ASSY	55-59	66	Δ	8-453-011-11	NECK ASSY, NA299-M	
52	4-045-250-01	DAMPER		67		*A-1644-091-A	VM BOARD, COMPLETE	
53	4-204-190-11	DOOR (KV-29FX11A	/29FX11D/29FX11R)	68		*A-1638-113-A	C BOARD, COMPLETE	
	4-204-190-01	DOOR (KV-29FX11B	/29FX11E/29FX11K/29FX11U)	69		4-200-433-01	SPRING, EXTENSION	
54	4-202-555-01	SHAFT DOOR		70		4-052-452-01	CUSHION DGC	
55	4-042-192-11	CATCHER, PUSH		71	Δ	1-406-807-11	COIL, DEMAGNETIZATION	N
56	4-204-195-01	WINDOW ORNAMENTA	L	72		4-060-802-01	HOLDER, DGC	
57	4-204-194-01	BUTTON, POWER		73		3-704-495-01	SPACER, DY	
58	4-202-964-11	SPRING		74	Δ	1-251-528-21	CAP ASSY, HIGH VOLTA	GE
59	4-204-196-01	GUIDE LIGHT		75		4-302-404-03	SCREW (WASHER HEAD)	+P4x16)
60	4-204-201-01	BRACKET, SPEAKER		76		1-505-937-11	SPEAKER (10CM)	
61	1-505-952-11	SPEAKER		77		4-039-358-01	SCREW (4x16), (+) BV T	APPING
62	4-039-356-01	SCREW (3X12), (+)	BV TAPPING	78		4-308-870-00	CLIP, LEAD WIRE	
63 △	8-735-041-05	PICTURE TUBE		79		1-452-094-00	MAGNET, ROTATABLE DI	SK; 15MM Ø
64 △	8-451-494-21	DEFLECTION YOKE	(Y29RSA-M2)	80		1-425-032-00	MAGNET, DISK; 10MM Ø	
65	1-452-896-11	COIL, NA ROTATIO	N (RT200)66	81		X-4387-214-1	PERMALLOY ASSY, CORF	ECTION
				80		3-701-007-00	BAND, BINDING	

# SECTION 7 ELECTRICAL PARTS LIST

Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked △ are critical for safety, Replace only with the part numbers specified in the parts list. Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- · All resistors are in ohms.
- F: nonflammable.

When indicating parts by reference number, please include the board name.

CAPACITORS MF: mF, PF: mmF

COILS MMH: mH, uH



											L	
REF. NO.	PART.NO	DESCRIPTION	N		REMARK	REF. NO.	PART.NO	DESCRIPTI	ON		REMARK	
	*A-1632-783-A	A BOARD, COMPI	LETE	(KV-29FX1	.1A)	C103	1-126-965-11	ELECT	22MF	20%	50V	
		******	****			C104	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
	*A-1632-782-A	A BOARD, COMPI	LETE	(KV-29FX1	.1B)	C110	1-126-967-11	ELECT	47MF	20%	16V	
		******	****			C112	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
	*A-1632-769-A	A BOARD, COMPI		(KV-29FX1	.1D)	C113	1-126-967-11	ELECT	47MF	20%	16V	
	*A-1632-784-A	A BOARD, COMPI	LETE	(KV-29FX1	.1E)	C120	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
		******	****			C121	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
	*A-1632-785-A	A BOARD, COMPI	LETE	(KV-29FX1	.1K)	C122	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
		******	****			C123	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
	*A-1632-786-A	A BOARD, COMPI		(KV-29FX1	.1R)	C124	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
	*A-1632-781-A	A BOARD, COMPI	LETE	(KV-29FX1	.1U)	C125	1-163-141-91	CERAMIC CHIP	1000PF	5%	50V	
		******		-	•	C144	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
						C201	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
	1-750-797-11	SOCKET, PLCC				C202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
		•				C203	1-104-661-91	ELECT	330MF	20%	16V	
	< CAP	ACITOR >										
						C204	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C1	1-163-038-00	CERAMIC CHIP (	0.1MF		25V	C205	1-126-965-11	ELECT	22MF	20%	50V	
C2	1-126-967-11	ELECT 4	47MF	20%	16V	C207	1-126-964-11	ELECT	10MF	20%	50V	
C3	1-163-104-00	CERAMIC CHIP 3	30PF	5%	50V	C208	1-126-964-11	ELECT	10MF	20%	50V	
C4	1-163-104-00	CERAMIC CHIP 3	30PF	5%	50V	C209	1-126-964-11	ELECT	10MF	20%	50V	
C8	1-163-038-00	CERAMIC CHIP (	0.1MF		25V							
						C210	1-216-295-00	SHORT	0			
C14	1-163-038-00	CERAMIC CHIP (	0.1MF		25V	C211	1-126-964-11	ELECT	10MF	20%	50V	
C15	1-163-021-91	CERAMIC CHIP (	0.01MF	10%	50V	C212	1-164-346-11	CERAMIC CHIP	1MF		16V	
18	1-163-038-00	CERAMIC CHIP (	0.1MF		25V	C213	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C19	1-163-017-00	CERAMIC CHIP (	0.0047MF	10%	50V	C214	1-164-346-11	CERAMIC CHIP	1MF		16V	
220	1-164-232-11	CERAMIC CHIP (	0.01MF	10%	50V							
						C215	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C21	1-164-232-11	CERAMIC CHIP (	0.01MF	10%	50V	C216	1-126-967-11	ELECT	47MF	20%	16V	
C22	1-163-117-00	CERAMIC CHIP 1	100PF	5%	50V	C217	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C24	1-163-141-00	CERAMIC CHIP (	0.001MF	5%	50V	C218	1-126-967-11	ELECT	47MF	20%	16V	
C45	1-163-038-00	CERAMIC CHIP (	0.1MF		25V	C219	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C80	1-163-117-00	CERAMIC CHIP 1	100PF	5%	50V							
						C220	1-126-964-11	ELECT	10MF	20%	50V	
C81	1-126-959-11	ELECT (	0.47MF	20%	50V	C221	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C82		CERAMIC CHIP (		10%	50V	C222	1-164-346-11	CERAMIC CHIP	1MF		16V	
C90	1-163-038-00	CERAMIC CHIP (	0.1MF		25V	C223		CERAMIC CHIP		5%	50V	
C101		CERAMIC CHIP (			25V	C224		CERAMIC CHIP			16V	
C102	1-126-934-11		220MF	20%	16V							



REF. NO.	PART.NO	DESCRIPTI	ON	R	EMARK	REF. NO.	PART.NO	DESCRIPTION	ON		REMARK
C225	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C300	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C226	1-126-967-11	ELECT	47MF	20%	16V	C301	1-163-038-00	CERAMIC CHIP			25V
C227	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C302	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C228	1-126-967-11	ELECT	47MF	20%	16V	C303	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C229	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C304	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C230	1-216-295-00	SHORT	0			C305	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C233	1-126-967-11	ELECT	47MF	20%	16V	C306	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C238	1-126-967-11	ELECT	47MF	20%	16V	C307	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C239	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C308	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C242	1-164-489-91	CERAMIC CHIP	0.22MF	10%	16V	C309	1-164-346-11	CERAMIC CHIP	1MF		16V
C243	1-164-489-91	CERAMIC CHIP	0.22MF	10%	16V	C310	1-164-346-11	CERAMIC CHIP	1MF		16V
C251	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V	C311	1-164-346-11	CERAMIC CHIP	1MF		16V
C252	1-163-087-00	CERAMIC CHIP	4PF	0.25PF		C312		CERAMIC CHIP			16V
C253	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C313	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C254	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	C315	1-216-295-00	SHORT	0		
C255	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C317	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C256	1-163-038-00			- *	25V	C319		CERAMIC CHIP		10%	50V
C257	1-126-965-11		22MF	20%	50V	C320	1-126-965-11		22MF	20%	50V
C258	1-126-964-11		10MF	20%	50V	C321		CERAMIC CHIP		10%	50V
C259		CERAMIC CHIP		.,	25V	C322		CERAMIC CHIP		10%	50V
C260	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C323	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C261	1-163-133-00			5%	50V	C324		CERAMIC CHIP		10%	50V
C262	1-163-133-00			5%	50V	C325		CERAMIC CHIP			16V
C263	1-163-038-00			- *	25V	C326		CERAMIC CHIP		5%	50V
C264	1-126-962-11		3.3MF	20%	50V	C327	1-136-167-91		0.15MF	5%	50V
C265	1-126-964-11	ELECT	10MF	20%	50V	C328	1-126-965-11	ELECT	22MF	20%	50V
C266	1-126-964-11		10MF	20%	50V	C332		CERAMIC CHIP		10%	50V
C267	1-126-965-11		22MF	20%	50V	C333	1-126-933-11		100MF	20%	16V
C268		CERAMIC CHIP		-	25V	C334		CERAMIC CHIP		10%	50V
C269		CERAMIC CHIP		5%	50V	C335		CERAMIC CHIP		10%	25V
C270	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	C336	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C271		CERAMIC CHIP		5%	50V	C337		CERAMIC CHIP		10%	50V
C272		CERAMIC CHIP		5%	50V	C338		CERAMIC CHIP			16V
C273		CERAMIC CHIP		5%	50V	C339		CERAMIC CHIP		10%	50V
C274		CERAMIC CHIP		5%	50V	C340	1-126-933-11		100MF	20%	16V
C275	1-164-346-11	CERAMIC CHIP	1MF		16V	C341	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C276		CERAMIC CHIP			16V	C342		CERAMIC CHIP			16V
C277		CERAMIC CHIP			16V	C343		CERAMIC CHIP		10%	50V
C278		CERAMIC CHIP			16V	C344		CERAMIC CHIP		5%	50V
C279	1-126-965-11		22MF	20%	50V	C347		CERAMIC CHIP			25V
C280	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C348	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C281	1-126-965-11		22MF	20%	50V	C350	1-126-964-11		10MF	20%	50V
C282		CERAMIC CHIP			25V	C351		CERAMIC CHIP			16V
C283		CERAMIC CHIP		5%	50V	C352		CERAMIC CHIP			25V
C284		CERAMIC CHIP		5%	50V	C353		CERAMIC CHIP			16V
C285	1-163-035-01	CERAMIC CHIP	4700PF	5%	50V	C354	1-164-005-11	CERAMIC CHIP	0 47MF		25V
C286		CERAMIC CHIP		5% 5%	50V	C354 C355	1-104-005-11		22MF	20%	50V
C200	1-103-033-31	CERMMIC CHIP	2/0055	Ja	J0V	C333	1-120-903-11	PTECI	22111	<b>2</b> 06	307



REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	l	REMARK	
C356		CERAMIC CHIP 0.01MF	10%	50V	D220		DIODE 1SS355			
			10% 5%							
C357		CERAMIC CHIP 470PF	38	50V	D221		DIODE 1SS355			
C358		CERAMIC CHIP 0.47MF	<b>F</b> 0	25V	D222		DIODE DTZ9.1			
C359		CERAMIC CHIP 15PF	<b>5</b> %	50V	D223		DIODE DTZ9.1			
C360	1-163-231-11	CERAMIC CHIP 15PF	5%	50V	D224	8-719-977-22	DIODE DTZ9.1			
C370	1-164-505-11	CERAMIC CHIP 2.2MF		16V	D225	8-719-977-22	DIODE DTZ9.1			
C371	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	D226	8-719-977-22	DIODE DTZ9.1			
C372	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D227	8-719-977-13	DIODE DTZ6.8C			
C373	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	D251		DIODE BAS216			
C1001		CERAMIC CHIP 22PF	5%	50V	D320	8-719-977-22	DIODE DTZ9.1			
C1002	1_162_225_11	CERAMIC CHIP 22PF	5%	50V	D370	0_710_0/7_16	DIODE BAS216			
			3%					/mv\		
C1010		CERAMIC CHIP 0.1MF	200	25V	D1010	0-/19-030-30	DIODE MA3030-H	(IA)		
C1013	1-126-965-11		20%	50V		. =				
C1014		CERAMIC CHIP 0.1MF		25V		< ENC	APSULATED FILTE	R >		
C1015	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V		4 444 451				
					FL101		ENCAPSULATED C			
C1020	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	FL201		ENCAPSULATED C			
					FL202	1-236-071-11	ENCAPSULATED C	OMPONENT		
	< FIL	TER >			FL203	1-236-071-11	ENCAPSULATED C	OMPONENT		
					FL1001	1-236-071-11	ENCAPSULATED C	OMPONENT		
CF120	1-409-327-00	TRAP, CERAMIC (6.5MHZ)								
	< CON	INECTOR >				< IC	<b>&gt;</b>			
					IC1	8-759-376-77	IC SDA30C263-G	EG		
CN1	1-695-302-11	CONNECTOR, BOARD TO BOA	ARD 50P		IC2	8-759-524-94	IC M24C32-MW6T			
CN2		PLUG, CONNECTOR 5P			IC4		IC PST593C-MMP			
CN201		CONNECTOR, DUAL SCART			IC201		IC CXA2040AQ-T			
CN204		PIN, CONNECTOR (SMALL T	TYPE) 4P	)	IC202		IC MSP3410D-PS			
CN301		PIN, CONNECTOR 7P	,		10202	0 100 101 01	10 1.0101102 10			
011301	1 300 002 31	TIN, COMMICION 71			IC205	8-759-394-57	IC PST593C-MMP	- <b>4</b> P		
	< DIO	אחר >			IC301		IC CXA20760-TL			
	\ D10	) 			IC302		IC TDA4665T-T			
D2	0_710_000_60	DIODE 1SS355			IC302		IC TDA40051-1			
							IC IDA63931/N3 IC SDA5273CP-G			
D16		DIODE 1SS355			101001	0-139-310-10	IC SDASZ/SCP-G	EG .		
D101		DIODE DTZ33B								
D201 D202		DIODE DTZ9.1 DIODE DTZ9.1				< COI	. ш. >			
					L102	1-410-506-11	INDUCTOR	5.6UH		
D203	8-719-977-22	DIODE DTZ9.1			L111		INDUCTOR CHIP			
D204		DIODE DTZ9.1			L120	1-408-602-31		8.2UH		
D206		DIODE DTZ9.1			L121	1-408-591-11		1UH		
D207		DIODE DTZ9.1			L122	1-408-602-31		8.2UH		
D208		DIODE DTZ9.1								
D200	0 113 311 22	DIODE DIEJ.I			L300	1-408-607-31	INDUCTOR	22UH		
D209	8-719-977-22	DIODE DTZ9.1								
D210	8-719-977-22	DIODE DTZ9.1				< TRA	NSISTOR >			
D211	8-719-977-22	DIODE DTZ9.1								
D212	8-719-977-22	DIODE DTZ9.1			Q1	8-729-620-06	TRANSISTOR 2SC	3052-EF		
D214		DIODE DTZ9.1			Q4		TRANSISTOR 2SC			
		• •			Q15		TRANSISTOR 2SA			
D215	8-719-977-22	DIODE DTZ9.1			080		TRANSISTOR 2SC			
D216		DIODE RD5.6S-B			081		TRANSISTOR 2SA			
D217		DIODE RD5.6S-B			X01	0 ,23 210 22	TILLIOIDION ZOR			
D217		DIODE RD5.6S-B			0110	8-720-620-06	TRANSISTOR 2SC	3052-FF		
D210	0 113-130-13	DIVUE NUJ. 03-B			7110	0 129-020-00	IMMUIDION ZOC	JVJ2 EF		
				_	' '-					



REF. NO.	PART.NO	DESCRIPTION	ON	REMA	ARK	REF. NO.	PART.NO	DESCRIPTIO	N		REMARK
Q111		TRANSISTOR 2				R20	1-216-025-00	RES,CHIP	100	5%	1/10W
Q112	8-729-620-06	TRANSISTOR 2	SC3052-EF			R21	1-216-025-00	RES,CHIP	100	5%	1/10W
Q120	8-729-620-06	TRANSISTOR 2	SC3052-EF			R23	1-216-041-00	RES,CHIP	470	5%	1/10W
Q121	8-729-620-06	TRANSISTOR 2	SC3052-EF			R24	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
Q122	8-729-620-06	TRANSISTOR 2	SC3052-EF			R25	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
Q124	8-729-620-06	TRANSISTOR 2	SC3052-EF			R28	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
Q130		TRANSISTOR 2				R29	1-216-065-00		4.7K		1/10W
Q140		TRANSISTOR 2				R30	1-216-065-00		4.7K		1/10W
Q141		TRANSISTOR 2				R31	1-216-065-00	•	4.7K		1/10W
Q201		TRANSISTOR 2				R32	1-216-025-00	•	100	5%	1/10W
Q202	9_720_620_06	TRANSISTOR 2	CC3052_FF			R33	1-216-025-00	ספי רעדם	100	5%	1/10W
Q202 Q203		TRANSISTOR 2				R34	1-216-025-00		100	5%	1/10W
Q203 Q204		TRANSISTOR 2				R35	1-216-025-00		100	5%	1/10W
Q204 Q300		TRANSISTOR D				R39	1-216-023-00	•	100 10K	5%	1/10W
Q304		TRANSISTOR D				R46	1-216-075-00	•	82K	5% 5%	1/10W
Q304	0-129-020-06	TRANSISTUK Z	3C3U3Z-EF			A40	1-210-033-00	AES, CHIP	οZΛ	Jf	1/10 <b>W</b>
Q305		TRANSISTOR 2				R48	1-216-121-91		1M	5%	1/10W
Q306		TRANSISTOR D				R49	1-216-025-00		100	5%	1/10W
Q330		TRANSISTOR 2				R50	1-216-065-00		4.7K		1/10W
Q331		TRANSISTOR 2				R51	1-216-059-00	•	2.7K		1/10W
Q332	8-729-620-06	TRANSISTOR 2	SC3052-EF			R54	1-216-025-00	RES, CHIP	100	5%	1/10W
Q333	8-729-216-22	TRANSISTOR 2	SA1162-G			R59	1-216-025-00	RES,CHIP	100	5%	1/10W
Q334	8-729-216-22	TRANSISTOR 2	SA1162-G			R60	1-216-025-00	RES,CHIP	100	5%	1/10W
Q335	8-729-216-22	TRANSISTOR 2	SA1162-G			R61	1-216-025-00	RES,CHIP	100	5%	1/10W
Q1001	1-801-806-11	TRANSISTOR D	TC144EKA			R62	1-216-025-00	RES,CHIP	100	5%	1/10W
Q1002	8-729-216-22	TRANSISTOR 2	SA1162-G			R63	1-216-025-00	RES,CHIP	100	5%	1/10W
Q1003	1-801-806-11	TRANSISTOR D	TC144EKA			R64	1-216-025-00	RES,CHIP	100	5%	1/10W
Q1005	8-729-101-07	TRANSISTOR 2	SB798-DL			R65	1-216-025-00		100	5%	1/10W
-						R66	1-216-057-00		2.2K	5%	1/10W
	< RES	SISTOR >				R67	1-216-057-00	•	2.2K		1/10W
						R68	1-216-025-00		100		1/10W
JR7	1-216-295-00		0								
JR101	1-216-295-00		0			R70	1-216-025-00		100	5%	1/10W
JR102	1-216-295-00		0			R71	1-216-025-00	•	100	5%	1/10W
JR201	1-216-295-00		0			R72	1-216-025-00		100	5%	1/10W
JR204	1-216-295-00	SHORT	0			R73	1-216-025-00	•	100	5%	1/10W
JR205	1-216-295-00	ς#Ω₽Ψ	0			R74	1-216-025-00	RES,CHIP	100	5%	1/10W
JR207	1-216-295-00		0			R75	1-216-025-00	BEC CHID	100	5%	1/10W
JR207 JR208	1-216-295-00		0			R76	1-216-025-00		100	5% 5%	1/10W
JR208 JR209	1-216-295-00		0			R77	1-216-025-00		100	5% 5%	1/10W 1/10W
JR209 JR391	1-216-295-00		0			R78		INDUCTOR CHIP		Jo	1/10#
TECYN	1-210-233-00	SHORT	U			R79	1-414-233-21		220	5%	1/10W
R1	1-216-049-00	RES,CHIP	1K 5%	1/10W				•			
R2	1-216-025-00		100 5%	1/10W		R80	1-216-049-00	RES, CHIP	1K	5%	1/10W
R3	1-216-025-00	RES,CHIP	100 5%	1/10W		R81	1-216-081-00		22K	5%	1/10W
R4	1-216-013-00		33 5%	1/10W		R82	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R5	1-216-065-00		4.7K 5%	1/10W		R83	1-216-073-00		10K	5%	1/10W
						R84	1-216-081-00	RES,CHIP	22K	5%	1/10W
R7	1-216-041-00		470 5%	1/10W						_	
R9	1-216-041-00		470 5%	1/10W		R85	1-216-073-00		10K	5%	1/10W
R19	1-216-025-00	RES,CHIP	100 5%	1/10W		R86	1-216-077-00	RES,CHIP	15K	5%	1/10W



												• •
REF. NO.	PART.NO	DESCRI	PTION		REMARK	REF. NO.	PART.NO	DESCRIF	PTION		REMARK	
R87	1-216-081-00	RES, CHIP	22K	5%	1/10W	R151	1-216-025-71	RES,CHIP	100	5%	1/10W	
R88	1-216-025-00	RES, CHIP	100	5%	1/10W	R200	1-216-049-00	RES, CHIP	1K	5%	1/10W	
R91	1-216-025-00	RES, CHIP	100	5%	1/10W	R201	1-216-033-00	RES, CHIP	220	5%	1/10W	
R92	1-216-025-00	•	100	5%	1/10W	R202	1-216-033-00	•	220	5%	1/10W	
R93	1-216-033-00		220	5%	1/10W	R203	1-216-025-00		100	5%	1/10W	
R94	1-216-033-00		220	5% = ^	1/10W	R204	1-216-025-00	•	100	5% =°	1/10W	
R95	1-216-033-00		220	5% •^	1/10W	R205	1-216-083-91	•	27K	5% •••	1/10W	
R101	1-216-061-00	•	3.3K		1/10W	R206	1-216-033-00	•	220	<b>5</b> %	1/10W	
R102	1-216-025-00		100	5%	1/10W	R208	1-216-041-00	•	470	5%	1/10W	
R103	1-216-025-00	RES,CHIP	100	5%	1/10W	R209	1-216-035-00	RES,CHIP	270	5%	1/10W	
R104	1-216-073-00	RES, CHIP	10K	5%	1/10W	R210	1-216-013-00	RES,CHIP	33	5%	1/10W	
R105	1-216-113-00	RES, CHIP	470K	5%	1/10W	R211	1-216-033-00	RES, CHIP	220	5%	1/10W	
R106	1-216-073-00	RES, CHIP	10K	5%	1/10W	R212	1-216-022-00	RES, CHIP	75	5%	1/10W	
R107	1-216-295-00	•	0		·	R213	1-216-022-00		75	5%	1/10W	
R110	1-216-073-00		10K	5%	1/10W	R214	1-216-025-00		100	5%	1/10W	
R111	1-216-029-00		150	5%	1/10W	R216	1-216-025-00	•	100	5%	1/10W	
R112	1-216-029-00	RES, CHIP	150	5%	1/10W	R217	1-216-113-00	RES, CHIP	470K	5%	1/10W	
R113	1-216-001-00	RES, CHIP	10	5%	1/10W	R218	1-216-025-00	RES, CHIP	100	5%	1/10W	
R114	1-216-029-00	RES, CHIP	150	5%	1/10W	R219	1-216-113-00	RES, CHIP	470K	5%	1/10W	
R115	1-216-037-00	RES, CHIP	330	5%	1/10W	R220	1-216-295-00	SHORT	0			
R119	1-216-295-00	CUODM	0			R221	1-216-039-00	DEC CUID	390	5%	1/10W	
R120	1-216-069-00		6.8K	E 0.	1/10W	R221	1-216-039-00	•	47K	5%	1/10W	
R121	1-216-003-00		10K	5%	1/10W	R223	1-216-295-00		0	J	1/10#	
										E 0.	1 /1 014	
R122	1-216-041-00		470	5% = 0.	1/10W	R224	1-216-039-00	•	390	5% = 0.	1/10W	
R123	1-216-031-00	RES, CHIP	180	5%	1/10W	R225	1-216-089-00	RES, CHIP	47K	5%	1/10W	
R124	1-216-049-00	RES, CHIP	1K	5%	1/10W	R226	1-216-033-00	RES,CHIP	220	5%	1/10W	
R125	1-216-081-00	RES, CHIP	22K	5%	1/10W	R227	1-216-022-00	RES, CHIP	75	5%	1/10W	
R126	1-216-025-00	RES, CHIP	100	5%	1/10W	R228	1-216-022-00	RES, CHIP	75	5%	1/10W	
R127	1-216-081-00	RES, CHIP	22K	5%	1/10W	R229	1-216-033-00	RES, CHIP	220	5%	1/10W	
R128	1-216-035-00	RES, CHIP	270	5%	1/10W	R230	1-216-022-00	RES, CHIP	75	5%	1/10W	
R129	1-216-037-00	DEC CUID	330	5%	1/10W	R232	1-216-025-00	DEC CUID	100	5%	1/10W	
R130	1-216-061-00		3.3K		1/10W	R233	1-216-025-00	•	100	5% 5°	1/10W	
R131	1-216-073-00		10K	5% = ^	1/10W	R234	1-216-113-00	•	470K		1/10W	
R132	1-216-025-00		100	5% - ^	1/10W	R235	1-216-025-00		100	5% - ^	1/10W	
R133	1-216-041-00	RES,CHIP	470	5%	1/10W	R236	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R134	1-216-001-00	RES, CHIP	10	5%	1/10W	R237	1-216-295-00	SHORT	0			
R135	1-216-037-00		330	5%	1/10W	R238	1-216-089-00		47K	5%	1/10W	
R136	1-216-033-00		220	5%	1/10W	R239	1-216-039-00		390	5%	1/10W	
R137	1-216-049-00		1K	5%	1/10W	R240	1-216-295-00		0		• •	
R138	1-216-041-00		470	5%	1/10W	R241	1-216-089-00		47K	5%	1/10W	
R144	1-216-081-00		22K	5% - ^	1/10W	R242	1-216-039-00		390	5% - ^	1/10W	
R145	1-216-049-00		1K	5%	1/10W	R243	1-216-033-00		220	5%	1/10W	
R146	1-216-049-00		1K	5%	1/10W	R244	1-216-033-00		220	5%	1/10W	
R147	1-216-033-00		220	5%	1/10W	R248	1-216-073-71		10K	5%	1/10W	
R148	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R249	1-216-001-00	RES,CHIP	10	5%	1/10W	
R149	1-216-049-00	RES.CHTP	1K	5%	1/10W	R250	1-216-073-71	RES.CHTP	10K	5%	1/10W	
R150	1-216-061-00		3.3K		1/10W	R255	1-216-025-00		100	5%	1/10W	
1120	T TIO OOT-00	NEO , CHIE	J.JK	J 10	1/1011	ILEUJ	I 210 02J-00	MED, CHIE	100	<b>J</b> 0	1/1011	



REF. NO.	PART.NO	DESCRI	PTION		REMARK	REF. NO.	PART.NO	DESCRIPT	10N		REMARK
				F.						<b>P</b> •	
R256	1-216-025-00		100	5% •••	1/10W	R331	1-216-059-00		2.7K		1/10W
R257	1-216-013-00		33	5% = 0	1/10W	R332	1-216-025-00	,	100	5% = 0	1/10W
R258	1-216-049-00		1K	5% = 0	1/10W	R333	1-216-075-00	•	12K	5% ••	1/10W
R265	1-216-065-00		4.7K	5% = 0	1/10W	R334	1-216-041-00		470	5%	1/10W
R266	1-216-073-71	RES,CHIP	10K	5%	1/10W	R335	1-216-675-11	METAL CHIP	10K	U.509	ł 1/10W
R267	1-216-073-71		10K	5%	1/10W	R336	1-216-109-00	•	330K		1/10W
R270	1-216-022-00		75	5%	1/10W	R337	1-216-025-00	•	100	5%	1/10W
R271	1-216-022-00		75	5%	1/10W	R338	1-216-051-00	•	1.2K		1/10W
R272	1-216-022-00		75	5%	1/10W	R339	1-216-049-00	•	1K	5%	1/10W
R273	1-216-022-00	RES,CHIP	75	5%	1/10W	R340	1-216-025-00	RES,CHIP	100	5%	1/10W
R280	1-216-049-00	RES,CHIP	1K	5%	1/10W	R341	1-216-025-00	RES,CHIP	100	5%	1/10W
R281	1-216-089-00	RES,CHIP	47K	5%	1/10W	R342	1-216-049-00	RES,CHIP	1K	5%	1/10W
R282	1-216-093-00	RES,CHIP	68K	5%	1/10W	R343	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R283	1-216-049-00	RES,CHIP	1K	5%	1/10W	R344	1-216-067-00	RES, CHIP	5.6K	5%	1/10W
R284	1-216-089-00	RES,CHIP	47K	5%	1/10W	R345	1-216-025-00	RES,CHIP	100	5%	1/10W
R285	1-216-093-00	RES,CHIP	68K	5%	1/10W	R346	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R286	1-216-049-00		1K	5%	1/10W	R347	1-216-025-00	•	100	5%	1/10W
R291	1-216-049-71		1K	5%	1/10W	R348	1-216-025-00	•	100	<b>5</b> %	1/10W
R292	1-216-049-71		1K	5%	1/10W	R349	1-216-025-00	•	100	5%	1/10W
R293	1-216-049-71		1K	5%	1/10W	R350	1-216-042-00	•	510	5%	1/10W
R294	1-216-049-71	RES.CHTP	1K	5%	1/10W	R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R295	1-216-049-71		1K	5%	1/10W	R352	1-216-077-00	•	15K	5%	1/10W
R296	1-216-049-71		1K	5%	1/10W	R353	1-216-033-00	•	220	5%	1/10W
R300	1-216-025-00		100	5%	1/10W	R354	1-216-295-00		0		-, <del></del>
R301	1-216-033-00		220	5%	1/10W	R357	1-216-049-00		1K	5%	1/10W
R302	1-216-295-00	SHORT	0			R358	1-216-295-00	SHORT	0		
R303	1-216-295-00		0			R360	1-216-049-00		1K	5%	1/10W
R308	1-216-295-00		100	5%	1/10W	R362	1-216-049-00	,	1K	ა 5%	1/10W
R309	1-216-023-00		220	5%	1/10W	R364	1-216-049-00	•	1K	5%	1/10W
R310	1-216-033-00		220	5%	1/10W	R370	1-216-295-00	•	0	J-0	-/ -VII
				,,							
R311	1-216-295-00		0			R1001	1-216-025-00	•	100	5%	1/10W
R312	1-216-295-00		0			R1002	1-216-025-00	•	100	5%	1/10W
R314	1-216-295-00		0			R1005	1-216-041-00	•	470	5%	1/10W
R315	1-216-295-00		0			R1006	1-216-049-00	•	1K	5%	1/10W
R316	1-216-033-00	RES,CHIP	220	5%	1/10W	R1007	1-216-073-00	RES,CHIP	10K	5%	1/10W
R318	1-216-689-11	RES,CHIP	39K	5%	1/10W	R1010	1-216-295-00	SHORT	0		
R319	1-216-081-00		22K	5%	1/10W	R1012	1-216-041-00		470	5%	1/10W
R320	1-216-025-00		100	5%	1/10W	R1014	1-216-065-00	•	4.7K		1/10W
R321	1-216-025-00		100	5%	1/10W	R1015	1-216-041-00	•	470		1/10W
R322	1-216-025-00		100	5%	1/10W	R1016	1-216-073-00	•	10K		1/10W
R323	1-216-033-00	RES.CHIP	220	5%	1/10W	R1017	1-216-295-00	SHORT	0		
R324	1-216-063-91		3.9K		1/10W	R1020	1-216-097-00		100K	5%	1/10W
R326	1-216-025-00		100	5%	1/10W	R1021	1-216-029-00	•	150	5%	1/10W
R327	1-216-025-00		100	5%	1/10W	R1022	1-216-029-00	•	150	5%	1/10W
R328	1-216-129-00		2.2M		1/10W	R1023	1-216-029-00	•	150	5%	1/10W
R329	1-216-083-00	מדטי סקק	27K	5%	1/10W	R1024	1-216-045-00	מדט פקק	680	5%	1/10W
R329 R330	1-216-083-00		27K 100	5% 5%		R1024 R1026	1-216-045-00		100	5% 5%	1/10W 1/10W
N220	1-510-052-00	KES, CHIP	100	38	1/10W	KT050	1-510-052-00	Ked, Chip	100	28	T/ TOM

REF. NO.	PART.NO	DESCRIPTION	I	REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
R1027	1-216-025-00	·				< I	:>			
R1028	1-216-025-00	RES,CHIP 100	5% 1/10	Ň						
	< TUN	ED \			IC01	8-759-385-2	6 IC TDA4472-CF	LG3		
	\ 10h	EK /				< C	OIL >			
TU101	1-693-338-11	TUNER/VIF (AEP) (KV-	29FX11A/29	FX11D/29FX11E/						
			29FX11K/29	FX11R)	L02	1-408-408-0	) INDUCTOR	8.2UH		
		TUNER/VIF (FR)		(KV-29FX11B)	L04	1-408-419-0		68UH		
	1-693-339-11	TUNER/VIF (UK)		(KV-29FX11U)	T08	1-410-992-1	I INDUCTOR CHIP	0.82UH		
	< CRY	STAL >				< V.	ARIABLE COIL >			
X1	1-767-154-21	VIBRATOR, CERAMIC			LV01	1-411-874-1	L COIL			
X201		VIBRATOR, CRYSTAL								
X301		OSCILLATOR, CRYSTAL				< T	RANSISTOR >			
X302 X303		OSCILLATOR, CRYSTAL VIBRATOR, CERAMIC			001	8-729-216-2	TRANSISTOR 2S	1162-G		
1100	1 101 121 11	TEMPLON, CEMPLIC			201	0 123 210-2	. IMMOTOTOR ZO	U		
X1001	1-579-965-21	VIBRATOR, CRYSTAL				< R	ESISTOR >			
******	*****	******	*****	*****	JR01	1-216-296-9	L METAL GLAZE	0 5%	1/8	W
					JR02	1-216-296-9	L METAL GLAZE	0 5%	1/8	
	A-1652-037-A	IF BOARD, COMPLETE	(KV-29FX11	A/29FX11D/	JR03	1-216-295-0	) METAL GLAZE	0 5%	1/1	0W
		*****	KV-29FX111	E/29FX11K/	JR04	1-216-296-9	L METAL GLAZE	0 5%	1/8	
			KV-29FX111	•	JR05	1-216-295-0	) METAL GLAZE	0 5%	1/1	0W
	A-1652-038-A	IF BOARD, COMPLETE	(KV-29FX11)	J)	JR07	1-216-295-0	) METAL GLAZE	0 5%	1/1	OW
								•	-, -	···
	< CAP	ACITOR >			R01		) METAL GLAZE	150 5%	1/1	
					R02		L METAL GLAZE	47K 5%	1/1	
C01		CERAMIC CHIP 2.2MF		16V	R03		METAL GLAZE	47K 5%	1/1	
C02 C03	1-104-337-11	CERAMIC CHIP 2.2MF ELECT 47MF	20%	16V 16V	R04 R05		) METAL GLAZE ) METAL GLAZE	2.2K 5% 22K 5%	1/1 1/1	
C04		TANTAL. CHIP 10MF	20%	6.3V	KUJ	1-210-001-0	MEIAH GHAZE	22K J	1/1	V N
C05		CERAMIC CHIP 0.1MF	10%		R06	1-216-057-0	) METAL GLAZE	2.2K 5%	1/1	0W
					R07		L METAL GLAZE	100 5%	1/1	
C06	1-164-005-11	CERAMIC CHIP 0.47MF		16V	R08	1-216-174-0	) METAL GLAZE	100 5%	1/8	W
C08		CERAMIC CHIP 0.01MF	10%	50V	R09	1-216-045-0	METAL GLAZE	680 5%	1/1	
C09		CERAMIC CHIP 0.1MF	10%	25V						9FX11D/29FX11E/
C10		CERAMIC CHIP 0.1MF	10%	25V		1 016 040 0				9FX11R)
C11	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		1-216-049-9	l METAL GLAZ	E 1K	5%	1/10W (KV-29FX11U)
C15	1-124-282-00	ELECT 22MF	20%	25V						,
C16		CERAMIC CHIP 1MF		16V	R10	1-216-041-0			5%	1/10W
C18		CERAMIC CHIP 2.2MF		16V	R11	1-216-051-0				1/10W
C19	1-124-937-11	ELECT 10MF	20%	16V	R23	1-216-049-9				1/10W
	< FTT.	TER >			R24 R25	1-216-295-9 1-216-057-0			5% 5%	1/10W 1/10W
					1.20		vanu			-,
CF01	1-404-134-00	TRAP, CERAMIC (5.5MH	•		R021	1-216-174-0	) METAL GLAZ	E 100	5%	1/8W
		<u>-</u>		FX11D/29FX11E/		, ••				
	1-409-333-21	KV- TRAP, CERAMIC (6.0MH	29FX11K/291 Z)	FX11R) (KV-29FX11U)		< V.	ARIABLE RESISTOR	>		
	===	, (			RV01	1-226-703-1	L RES, ADJ, MET	AL GLAZE 1	0K	
SWF04	1-767-084-11	FILTER, SURFACE WAVE								

# **IF** (KV-29FX11B)

REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
	A-1652-036-A	IF BOARD, COMPLETE	(KV-29FX11	B)		< TRAN	SISTOR >			
					Q01	8-729-216-22	TRANSISTOR 2SA	1162-G		
	< CAD	ACITOR >			Q02	8-729-035-11	TRANSISTOR BF7			
	\ CAP	ACTION >			Q02 Q03	8-729-035-11	TRANSISTOR BF7			
201	1 160 600 11	CERAMIC CHIP 1MF		16V	Q03 Q04	8-729-901-01	TRANSISTOR DTO			
201					Q04	8-729-901-01	TRANSISTOR DIC	.144LK		
202		CERAMIC CHIP 2.2MF	200	16V		4 DEGT	amon >			
203	1-104-957-11		20%	16V		< RESI	STOR >			
04		TANTAL. CHIP 10MF	20%	6.3V		1 01 6 00 6 01		•	<b>F</b> 0	4 /0
:05	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	JR01	1-216-296-91	METAL GLAZE	0	5%	1/8W
					JR02	1-216-296-91	METAL GLAZE	0	5%	1/8W
06		CERAMIC CHIP 0.47MF		16V	JR03	1-216-295-00	METAL GLAZE	0	5%	1/10W
:08		CERAMIC CHIP 0.01MF	10%	50V	JR04	1-216-296-91	METAL GLAZE	0	5%	1/8W
09	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	JR05	1-216-295-00	METAL GLAZE	0	5%	1/10W
10	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V						
11	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	JR07	1-216-295-00	METAL GLAZE	0	5%	1/10W
12	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	R01	1-216-029-00	METAL GLAZE	150	5%	1/10W
13	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	R02	1-216-089-91	METAL GLAZE	47K	5%	1/10W
14	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	R03	1-216-089-91	METAL GLAZE	47K	5%	1/10W
:15	1-104-957-11	ELECT 47MF	20%	16V	R04	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
16	1-162-638-11	CERAMIC CHIP 1MF		16V	R05	1-216-081-00	METAL GLAZE	22K	5%	1/10W
17	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	R06	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
18		CERAMIC CHIP 2.2MF		16V	R07	1-216-025-91	METAL GLAZE	100	5%	1/10W
20	1-124-937-11		20%	16V	R08	1-216-174-00	METAL GLAZE	100	<b>5</b> %	1/8W
21		CERAMIC CHIP 4.7MF		16V	R09	1-216-045-00	METAL GLAZE	680	5% 5%	1/10W
,21	1 104 300 11	CERAMIC CHIF 4.7MF		101	R10	1-216-041-00	METAL GLAZE	470	5%	1/10W
	< FIL	TER >			N20	1 210 011 00		1/0	•	1/ 1011
					R11	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
F01	1-409-430-11	TRAP, CERAMIC			R12	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
		,			R13	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
SWF01	1-579-273-11	FILTER, SURFACE WAVE			R14	1-216-023-00	METAL GLAZE	82	5%	1/10W
SWF02		FILTER, SURFACE WAVE			R15	1-216-017-91	METAL GLAZE	47	5%	1/10W
WF03		FILTER, SURFACE WAVE			1.20				••	-, - • · ·
			-		R16	1-216-033-00	METAL GLAZE	220	5%	1/10W
	✓ ΨDT	MMER >			R17	1-216-017-91	METAL GLAZE	47	5%	1/10W
	/ 1K1				R18	1-216-017-91	METAL GLAZE	33	5%	1/10W
T01	1-760-662-11	TRAP, CERAMIC			R20	1-216-013-00	METAL GLAZE	10K	5%	1/10W 1/8W
.101	1-100-002-11	IRAF, CERAMIC			R23	1-216-222-00	METAL GLAZE	10K 1K	ეგ 5%	1/8W 1/10W
	< IC	>			1,723	1-210-043-31	MEIND CHACE	TI	Jo	1/10M
	. 20				R25	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
C01	8-759-069-36	IC MC74HC4046AF			R21	1-216-174-00	METAL GLAZE	100	5%	1/8W
	< COI	L >				< VARI	ABLE RESISTOR >			
L02	1-408-406-00	INDUCTOR 5.6U	i		RV01	1-226-703-11	RES, ADJ, META	L GLAZE	10K	
104	1-408-419-00				RV02	1-226-703-11	RES, ADJ, META			
05		INDUCTOR CHIP 0.330	TU		1402	1 220 703 11	MAD, ADO, MEIR	- 20000	T \ 1.	
06	1-408-399-00	INDUCTOR 1.5U	1							
	< VAR	IABLE COIL >								
.V01	1-411-874-11	COIL								
					1					



REF. NO.	PART.NO	DESCRI	PTION	F	EMARK	RE	F. NO		PART.NO	DESCRIPT	ION		R	EMAR	K
	*A-1638-113-A	C BOARD, C							< CRT	SOCKET >					
						J7	701	Δ	1-526-990-21	SOCKET, CRT					
	< CAP	ACITOR >							< COI	L >					
C702	1-128-551-11	ELECT	22MF	20%	25V										
C703	1-126-967-11		47MF	20%	10V	L7	01		1-410-667-31	INDUCTOR	22UH	l			
C704	1-102-945-00		8PF	0.5PF	50V										
705	1-102-945-00		8PF	0.5PF	50V				< TRA	NSISTOR >					
706	1-102-953-00	CERAMIC	18PF	5%	50V		101		0 700 110 76	mnawaraman (	021175				
707	1-107-651-11	DI DOM	4.7MF	20%	250V	Q /	01		8-729-119-76	TRANSISTOR A	(SA11/5-	HFE			
2708	1-107-651-11		4.7MF 1MF	20% 20%	50V				/ 000	ISTOR >					
709	1-120-900-11		0.047MF	200	50V				/ KE3	1310K >					
2710	1-107-651-11		4.7MF	20%	250V	R7	701		1-247-807-31	CARRON	100	5%	1/4W		
C711	1-107-651-11		4.7MF	20%	250V		102		1-249-417-11		1K	5% 5%	1/4W		
							103		1-249-437-11		47K	5%	1/4W		
712	1-101-006-00	CERAMIC	0.047MF		50V	R7	04		1-215-413-00	METAL	470	1%	1/4W		
C714	1-101-006-00	CERAMIC	0.047MF		50V	R7	105		1-249-441-11	CARBON	100K	5%	1/4W		
C715	1-101-006-00	CERAMIC	0.047MF		50V										
2716	1-102-157-00	CERAMIC	560PF	10%	500V	R7	106		1-535-465-11	LEAD, JUMPER	(5.0MM	I)			
717	1-102-157-00	CERAMIC	560PF	10%	500V	R7	107		1-215-424-00	METAL	1.3K	1%	1/4W		
						R7	108		1-215-424-00	METAL	1.3K	1%	1/4W		
718	1-102-157-00	CERAMIC	560PF	10%	500V	R7	109		1-215-424-00	METAL	1.3K	1%	1/4W		
719	1-102-074-00		0.001MF	10%	50V	R7	110		1-215-413-00	METAL	470	1%	1/4W		
720	1-137-490-11		0.01MF	10%	1KV										
721	1-107-651-11		4.7MF	20%	250V		111		1-249-421-11		2.2K		1/4W		
725	1-107-651-11	ELECT	4.7MF	20%	250V		112		1-249-431-11			5% •••	1/4W		
	4 000	DIECEOD >					118		1-249-422-11		2.7K		1/4W		
	< CON	NECTOR >					/19 /20		1-249-422-11 1-249-422-11		2.7K 2.7K		1/4W 1/4W		
CN701	*1-568-882-51	DIN CONNE	<b>⊂π∩</b> ₽ 7₽			K/	20		1-245-422-11	CARDON	2.71	20	1/4W		
CN702	1-695-915-11					R7	122		1-249-435-11	CARBON	33K	5%	1/4W		
N703	1-778-037-11	· ·	•				125		1-215-903-11		68K	<b>5</b> %	2W	F	
N705	1-695-915-11	•				R7			1-215-903-11		68K	5%	2W	F	
CN706	1-695-915-11						129		1-215-903-11		68K	5%	2W	F	
						R7	31		1-202-818-00	SOLID	1K	20%	1/2W		
	< DIO	DE >													
							132		1-202-818-00		1K	20%	1/2W		
701	8-719-109-97						133		1-202-818-00		1K	20%	1/2W		
704	8-719-991-33						134		1-247-739-11		100	5%	1/2W		
705	8-719-991-33						135		1-244-941-00		680K		1/2W		
707	8-719-991-33					R7	137		1-249-496-11	CARBON	100K	5%	1/2W		
709	8-719-051-85	DIODE HSS8	3TD			57	120		1 040 400 11	O3 DDON	0.02	F0	1 /057		
710	0 710 051 05	DIODE HOCO	2mp				138 140		1-249-489-11 1-216-391-11			5% €°.	1/2W		
710 711	8-719-051-85 8-719-051-85						142		1-215-391-11		1.5 150	ეგ 5%	3W 3W		
712	8-719-031-03						143		1-213-912-11				1/2W	r	
713	8-719-109-72					K/	73		1 202 047 00	SOLID	J001	200	1/211		
714	8-719-991-33								< VAR	IABLE RESISTO	)R >				
	< IC	>				וזק	7701		1-241-656-21	RES AD.T ME	የጥል፣. ፑፐ፣	.M 11∩	м		
	/ 10	•					7702		1-230-641-11						
IC701	8-759-346-42	IC TDA6101	Q/N3			-"'				.,,					
C702	8-759-346-42														
C703	8-759-346-42														



REF. NO.	PART.NO	DESCRIP	PTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	ON	REMARK
	< SPA	RK GAP >				D2805	8-719-970-87	DIODE ERA38-	06	
						D2806	8-719-300-33	DIODE RU-3AM		
SG701	1-517-712-31	GAP, SPARK				D2807	8-719-302-43	DIODE EL1Z		
SG702	1-517-712-31	GAP, SPARK				D2808	8-719-970-87	DIODE ERA38-	06	
SG703	1-517-712-31	GAP, SPARK				D2810	8-719-991-33	DIODE 1SS133	r-77	
SG704	1-519-421-11	GAP, DISCHA	ARGE							
						D2811	8-719-991-33	DIODE 1SS133	r-77	
******	******	*****	******	*****	*****	D2812	8-719-991-33	DIODE 1SS133	r-77	
						D2813	8-719-991-33	DIODE 1SS133	r-77	
	*A-1640-307-A	D5 BOARD, 0	COMPLETE							
		******	*****				< IC	>		
	< CAF	PACITOR >				IC2801	8-759-103-93	IC UPC393C		
						IC2802	8-759-701-59	IC NJM78M09F	A	
C2801	1-102-244-00		220PF	10%	500V	IC2803	8-759-700-42	IC NJM2904D		
C2804	1-136-165-00		0.1MF	5%	50V					
C2805	1-164-070-11		100PF	5%	50V		< COI	T >		
C2806	1-136-347-11		0.0047MF	5%	630V					
C2808	1-130-491-00	MYLAR	0.047MF	5%	50V	L2801		LEAD, JUMPER		
						L2802	1-406-677-11		OUH	
C2809	1-130-483-00		0.01MF	5%	50V	L2803	1-406-989-21		0UH	
C2811	1-129-716-00		0.015MF	5%	630V	L2805	1-406-667-11		OUH	
C2813	1-102-228-00		470PF	10%	500V	L2806	1-406-679-11	INDUCTOR	OUH	
C2814	1-129-992-00		0.0024MF	5%	630V					
C2815	1-117-455-11	FILM	22000PF	5%	630V		< TRA	ANSISTOR >		
C2817	1-126-933-11	ELECT	100MF	20%	16V	Q2802	8-729-119-78	TRANSISTOR 2	SC2785-HFE	
C2818	1-104-665-11	ELECT	100MF	20%	25V	Q2803	8-729-119-78	TRANSISTOR 2	SC2785-HFE	
C2819	1-126-933-11	ELECT	100MF	20%	16V	Q2805	8-729-119-76	TRANSISTOR 2	SA1175-HFE	
C2820	1-129-725-00	FILM	0.082MF	5%	400V	Q2806	8-729-039-68	TRANSISTOR I	RF620	
C2840	1-102-228-00	CERAMIC	470PF	10%	500V	Q2808	8-729-119-78	TRANSISTOR 2	SC2785-HFE	
C2841	1-102-030-00	CERAMIC	330PF	10%	500V	Q2810	8-729-119-78	TRANSISTOR 2	SC2785-HFE	
C2842	1-109-954-11	ELECT	0.47MF	20%	160V	Q2811	8-729-140-97	TRANSISTOR 2	SB734-34	
C2845	1-130-728-00	FILM	0.0022MF	5%	50V	Q2814	8-729-043-95	TRANSISTOR 2	SC3840	
C2846	1-130-491-00		0.047MF	5%	50V					
C2847	1-126-964-11	ELECT	10MF	20%	50V		< RES	SISTOR >		
C2848	1-136-159-00	FILM	0.033MF	5%	50V	R2801	1-535-465-11	LEAD, JUMPER	(5.0MM)	
C2849	1-126-964-11	ELECT	10MF	20%	50V	R2802	1-215-919-11	METAL OXIDE	2.2K 5%	3W F
C2850	1-130-483-00	MYLAR	0.01MF	5%	50V	R2804	1-249-437-11		47K 5%	1/4W
C2851	1-136-169-00	FILM	0.22MF	5%	50V	R2805	1-249-429-11		10K 5%	1/4W
C2852	1-136-169-00	FILM	0.22MF	5%	50V	R2806	1-249-413-11	CARBON	470 5%	1/4W
	< CON	NECTOR >				R2807	1-249-421-11	CARBON	2.2K 5%	1/4W
						R2811	1-215-445-00	METAL	10K 1%	1/4W
CN2804	*1-568-879-11	PIN, CONNEC	CTOR 4P			R2813	1-215-469-00	METAL	100K 1%	1/4W
CN2805	1-568-878-51					R2814	1-215-445-00		10K 1%	1/4W
CN2806	*1-508-784-00	PIN, CONNEC	CTOR (5MM PIT	CH) 1P		R2815	1-215-469-00	METAL	100K 1%	1/4W
CN2807	*1-568-881-51	PIN, CONNEC	CTOR 6P							
						R2816	1-215-443-00	METAL	8.2K 1%	1/4W
	< DIC	DE >				R2817	1-215-463-00		56K 1%	1/4W
						R2818	1-215-473-91	METAL	150K 1%	1/4W
D2801	8-719-110-41	DIODE RD15	ES-B2			R2819	1-249-421-11	CARBON	2.2K 5%	1/4W
		DTARE 1001	) ) m 77			R2820	1-249-421-11	CAPRON	2.2K 5%	1 / 457
D2802 D2804	8-719-991-33	DIODE ISSI	33T-11			KZ0Z0	1-249-421-11	CANDON	2.2K Jo	1/4W

D5



REF. NO.	PART.NO	DESCRIPTI	ON		i	REMARK	REF. NO	).	PART.NO	DESCRIPTI	ON		REMARK
R2821	1-247-807-31	CARBON	100	5%	1/4W				< CAI	PACITOR >			
R2823	1-535-465-11	LEAD, JUMPER	(5.0M	M)									
R2824	1-249-425-11	CARBON	4.7K	5%	1/4W		C502		1-102-824-91	CERAMIC	470PF	5%	50V
R2825	1-249-417-11	CARBON	1K	5%	1/4W		C503		1-136-165-00	FILM	0.1MF	5%	50V
R2826	1-249-417-11	CARBON	1K	5%	1/4W		C504		1-102-824-91	CERAMIC	470PF	5%	50V
							C506		1-126-941-11	ELECT	470MF	20%	25V
R2827	1-249-441-11	CARBON	100K	5%	1/4W		C507		1-109-953-11	ELECT	2.2MF	20%	50V
R2828	1-249-441-11	CARBON	100K	5%	1/4W								
R2829	1-249-441-11	CARBON	100K	5%	1/4W		C509		1-136-165-00	FILM	0.1MF	5%	50V
R2830	1-215-911-11	METAL OXIDE	100	5%	3W	F	C510		1-126-969-11	ELECT	220MF	20%	50V
R2831	1-215-911-11	METAL OXIDE	100	5%	3W	F	C511		1-136-202-11	FILM	0.33MF	5%	63V
							C513		1-106-220-00	MYLAR	0.1MF	10%	100V
R2832	1-249-379-11	CARBON	0.68	5%	1/4W	F	C514		1-136-165-00	FILM	0.1MF	5%	50V
R2840	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F							
R2841	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F	C515		1-126-941-11	ELECT	470MF	20%	25V
R2842	1-215-923-00	METAL OXIDE	10K	5%	3W	F	C517		1-126-941-11		470MF	20%	25V
R2843	1-215-923-00	METAL OXIDE	10K	5%	3W	F	C518		1-102-228-00		470PF	10%	500V
							C519		1-102-228-00	CERAMIC	470PF	10%	500V
R2844	1-249-409-11	CARBON	220	5%	1/4W	F	C520		1-126-941-11		470MF	20%	25V
R2845	1-215-489-00	METAL	680K	1%	1/4W		-						
R2846	1-247-903-00	CARBON	1M	5%	1/4W		C521		1-107-698-11	ELECT	10MF	20%	25V
R2847	1-249-429-11	CARBON	10K	<b>5</b> %	1/4W		C522		1-126-964-11	ELECT	10MF	20%	50V
R2848	1-215-449-00		15K	1%	1/4W		C523		1-136-165-00		0.1MF	5%	50V
1.2010	**	•			-,		C600	Λ	1-113-920-11		0.0022MF	20%	250V
R2849	1-215-491-00	METAL	820K	1%	1/4W		C601		1-162-599-12		0.0047MF	-00	250V
R2850	1-215-445-00	METAL	10K	1%	1/4W		0001		1 102 033 12	OLIVEITO	0.0047111		2501
R2851	1-215-445-00	METAL	10K	1%	1/4W		C602	$\wedge$	1-162-599-12	CERAMIC	0.0047MF		250V
R2852	1-215-481-00	METAL	330K		1/4W		C603			ELECT (BLOCK)		20%	400V
R2853	1-215-477-00		220K		1/4W		C604		1-126-968-11		100MF	20%	50V
1.2000		•••••			-,		C605		1-107-929-11		10MF	20%	100V
R2854	1-215-457-00	METAL	33K	1%	1/4W		C606		1-162-318-11		0.001MF	10%	500V
R2855	1-215-457-00	METAL	33K	1%	1/4W		0000		1 102 510 11	CERTIFIC	0.001HI	100	3001
R2856	1-247-807-31		100	5%	1/4W		C607		1-104-666-11	ELECT	220MF	20%	25V
R2857	1-249-413-11		470	5%	1/4W		C608		1-109-880-11		0.0015MF	3%	2KV
R2858	1-249-424-11		3.9K		1/4W		C611		1-102-228-00		470PF	3° 10%	500V
12030	1 249 424 11	CANDON	J. JI	J.	1/311		C612		1-111-160-11		22MF	20%	100V
R2859	1-247-807-31	CAPRON	100	5%	1/4W		C613		1-124-347-00		100MF	20%	160V
R2860	1-215-886-11		100	5%	2W	F	C013		1-124-547-00	ELECT	TOOME	200	1004
R2861	1-215-886-11		100	5% 5%	2W	F	C614		1-126-933-11	ביו ביית	100MF	20%	16V
N2001	1 213 000 11	MEIAL OXIDE	100	J.	211	•	C615		1-115-789-11		0.001F	20%	25V
	< ™DZ	ANSFORMER >					C616		1-115-789-11		0.001F	20%	25V
	\ IN	MSFORMER /					C617		1-113-789-11		2200MF	20%	25V 16V
T2801	1_424_504_11	TRANSFORMER,	מעוועם.	ור פּרי	סוזר		C617		1-126-339-11				50V
12001	1-424-304-11	TRANSFORMER,	DINAM.	IC FO	-05		C010		1-130-103-00	LITM	0.1MF	5%	507
******	******	*****	*****	****	******	*****	C619		1-102-228-00	CERAMIC	470PF	10%	500V
							C620		1-102-228-00	CERAMIC	470PF	10%	500V
	*A-1642-232-A	D BOARD, COM	PLETE				C621		1-136-165-00	FILM	0.1MF	5%	50V
		******	****				C622		1-107-925-11	ELECT	1MF	20%	100V
							C623		1-104-666-11	ELECT	220MF	20%	25V
	4-201-023-01	SPACER, INSU	LATING										
	4-202-373-01						C624		1-136-165-00	FILM	0.1MF	5%	50V
	4-202-373-01	•					C625		1-126-967-11		47MF	20%	50V
		•					C626		1-104-666-11		220MF	20%	25V
	4-202-710-01	SPACER, INSU	LATING				C628		1-126-964-11		10MF	20%	50V
		SCREW (M3X10		SW (+)	)		C629		1-111-097-11		0.0022F	20%	35V
		,	. , ,	` '								•	



REF. NO.	PART.NO	DESCRI	PTION	F	REMARK	REF. NO.	PART.NO	DESCRIPTI	ON		REMARK
C630	1-111-097-11	ELECT	0.0022F	20%	35V	C904	1-126-933-11	ELECT	100MF	20%	16V
C631	1-126-965-11	ELECT	22MF	20%	50V	C905	1-126-964-11	ELECT	10MF	20%	50V
C632	1-104-666-11	ELECT	220MF	20%	25V	C906	1-126-964-11	ELECT	10MF	20%	50V
C633 A	△ 1-107-563-11	FILM	0.1MF	20%	300V	C907	1-126-964-11	ELECT	10MF	20%	50V
C635 A	1-107-563-11	FILM	0.1MF	20%	300V	C908	1-126-964-11	ELECT	10MF	20%	50V
C636 A	1-113-920-11	CERAMIC	0.0022MF	20%	250V	C910	1-535-465-11	LEAD, JUMPER	(5.0MM)		
C638	1-136-203-11	FILM	0.01MF	10%	250V	C911	1-126-964-11	ELECT	10MF	20%	50V
C640	1-106-220-00	MYLAR	0.1MF	10%	100V	C916	1-162-318-11	CERAMIC	0.001MF	10%	500V
C641 A	1-161-744-00	CERAMIC	0.01MF		400V	C1200	1-136-165-00	FILM	0.1MF	5%	50V
C642 A	1-161-744-00	CERAMIC	0.01MF		400V	C1201	1-109-953-11	ELECT	2.2MF	20%	50V
C644	1-137-043-11	FILM	0.0047MF	10%	400V	C1202	1-109-953-11	ELECT	2.2MF	20%	50V
C647	1-162-116-00		680PF	10%	2KV	C1203	1-136-169-00		0.22MF	5%	50V
C651	1-102-228-00		470PF	10%	500V	C1204	1-136-169-00		0.22MF	5%	50V
C800	1-137-368-11	FILM	0.0047MF	5%	50V	C1205	1-101-005-00		0.022MF		50V
C801	1-137-399-11		0.1MF	5%	50V	C1206	1-101-005-00		0.022MF		50V
COUS	1-137-370-11	PTIM	0 01ME	<b>5</b> 0	507	C1207	1_104_000 11	EI ECM	100ME	200	16V
C802 C803	1-137-370-11		0.01MF 0.0022MF	5% 5%	50V 630V	C1207 C1208	1-126-933-11 1-126-963-11		100MF 4.7MF	20% 20%	16V 50V
	1-129-696-00		0.0022MF 0.047MF	วง 10%	250V	C1208	1-126-963-11		4.7MF 4.7MF	20% 20%	50V 50V
C805	1-136-207-11		0.047MF 0.1MF	10%	200V	C1210	1-126-963-11		4.7MF 470MF	20% 20%	25V
C806 C807			0.1MF 0.82MF	10% 5%	200V 200V	C1210			0.022MF	20% 5%	50V
C807	1-136-540-11	LITM	U. OZMF	38	2007	CIZIZ	1-137-372-11	LILM	U.UZZMF	38	30V
C808	1-136-104-00	FILM	0.16MF	5%	200V	C1213	1-137-372-11	FILM	0.022MF	5%	50V
C810	1-107-683-11	ELECT	2.2MF	0	250V	C1214	1-126-933-11	ELECT	100MF	20%	16V
C811	1-102-212-00	CERAMIC	820PF	10%	500V	C1215	1-136-173-00	FILM	0.47MF	5%	50V
C812	1-136-540-11	FILM	0.82MF	5%	200V	C1216	1-136-376-91	FILM	0.0027MF	5%	50V
C813	1-130-118-00	FILM	0.051MF	5%	400V	C1217	1-136-376-91	FILM	0.0027MF	5%	50V
C814	1-136-617-11	FILM	0.019MF	3%	2KV	C1218	1-126-941-11	ELECT	470MF	20%	25V
C815	1-137-046-11	FILM	0.0082MF	10%	400V	C1223	1-102-129-91	CERAMIC	0.01MF	10%	50V
C816	1-161-754-00	CERAMIC	0.001MF	10%	2KV						
C817	1-161-754-00	CERAMIC	0.001MF	10%	2KV		< CON	NECTOR >			
C818	1-161-754-00	CERAMIC	0.001MF	10%	2KV						
							△ 1-508-786-00				
C819	1-136-208-11		0.068MF	10%	250V		△ 1-508-765-00			CH) 3P	
C821	1-162-114-00		0.0047MF		2KV		<b>△</b> *1-580-844-11	•			
C822	1-107-662-11		22MF	20%	250V	CN800	*1-580-798-11				
C824	1-123-024-21		33MF		160V	CN801	*1-568-879-11	PIN, CONNECT	OR 4P		
C826	1-161-830-00	CERAMIC	0.0047MF		500V	CN802	*1-508-784-00	PTN. CONNECT	OR (5MM PTT	CH) 1D	
C829	1-126-959-11	ELECT	0.47MF	20%	50V	CN803	1-695-915-11	•		J II	
C830	1-136-173-00		0.47MF	20% 5%	50V	CN804	1-778-037-11	•	'		
C834	1-128-551-11		22MF	20%	25V	CN900	1-779-947-21	•			
C835	1-162-318-11		0.001MF	10%	500V	CN900	1-695-299-11		•	RD 50P	
C836	1-162-117-00		100PF	10%	500V	34702	1 033 233 11	JOHNHOTON, D			
0000	1 102 117 00	JEIGHT O	10011		5001	CN1401	*1-568-880-51	PIN. CONNECT	OR 5P		
C837	1-102-119-00	CERAMIC	0.0015MF	10%	50V	CN1403		•			
C838	1-102-228-00		470PF	10%	500V	CN1408	*1-568-879-11	•			
C839	1-136-207-11		0.047MF	10%	250V	CN1400	*1-568-879-11	•			
C841	1-102-114-00		470PF	10%	50V	341003	1 300 073 11	III, COMMECI	V41 11		
C845	1-247-901-11		820K 5%	1/4W	301		< DIO	DE >			
0073	I 741 301-11	CHILDON	020K J	1/44			/ D10	,			
C902	1-137-372-11	FILM	0.022MF	5%	50V	D500	8-719-109-85	DIODE RD5.1E	S-B2		
C903	1-137-372-11	FILM	0.022MF	5%	50V	D502	8-719-979-85	DIODE EGP20G	+		



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK	
D503	8-719-979-85	DIODE EGP20G		D902	8-719-923-60	DIODE MTZJ-T-77-9.1		
D504	8-719-991-33	DIODE 1SS133T-77		D903	8-719-923-60	DIODE MTZJ-T-77-9.1		
D505	8-719-982-03	DIODE MTZJ-3.6A		D904	8-719-923-60	DIODE MTZJ-T-77-9.1		
D506	8-719-991-33	DIODE 1SS133T-77		D905	8-719-923-60	DIODE MTZJ-T-77-9.1		
D507	8-719-109-85	DIODE RD5.1ES-B2		D906	8-719-923-60	DIODE MTZJ-T-77-9.1		
D510	8-719-924-13	DIODE MTZJ-T-77-22B		D907	8-719-109-89	DIODE RD5.6ESB2		
D570	8-719-924-13	DIODE MTZJ-T-77-22B		D910	8-719-923-60	DIODE MTZJ-T-77-9.1		
D571	8-719-924-13	DIODE MTZJ-T-77-22B		D920	8-719-109-89	DIODE RD5.6ESB2		
D600	8-719-510-53	DIODE D4SB60L		D1201	8-719-109-72	DIODE RD3.9ES-B2		
D601	8-719-046-77	DIODE EM1-V1		D1202	1-535-465-11	LEAD, JUMPER (5.0MM)		
D603	8-719-109-97	DIODE RD6.8ES-B2			< FUS	SE >		
D604	8-719-046-75	DIODE EU-1-V1						
D605	8-719-302-43	DIODE EL1Z		F601 △	1-576-232-21	FUSE (H.B.C.) 5.0A/250V		
D606	8-719-302-43	DIODE EL1Z		<u>^</u>	×1-533-725-11	HOLDER, FUSE (F601)		
D607	8-719-046-78	DIODE EG-1Z-V1						
D608	8-719-302-06	DIODE EU2A			< FEF	RRITE BEAD >		
D609		DIODE RU4AM-T3		FB600	1-410-397-21	FERRITE 1.1UH		
D610		DIODE AU-01Z-V1		FB601	1-410-397-21			
D611	8-719-058-38	DIODE FMN-G12S		FB602	1-410-397-21			
D612		DIODE RU3YX-LF-C4		FB604	1-410-396-41			
				FB605	1-410-396-41			
D613		DIODE FMN-G12S						
D614		DIODE FMN-G12S		FB606	1-410-397-21			
D615	8-719-046-75	DIODE EU-1-V1		FB607	1-410-397-21	FERRITE 1.1UH		
D616	8-719-110-03	DIODE RD7.5ESB2		FB608	1-410-396-41	FERRITE 0.45UH		
D617	8-719-991-33	DIODE 1SS133T-77		FB800	1-410-397-21	FERRITE 1.1UH		
D618	8-719-991-33	DIODE 1SS133T-77			< IC	>		
D619	8-719-991-33	DIODE 1SS133T-77						
D620	8-719-991-33	DIODE 1SS133T-77		IC500	8-759-192-71	IC STV9379		
D622	8-719-923-60	DIODE MTZJ-T-77-9.1A		IC600	8-749-010-92	IC STR-S6709		
D625	8-719-991-33	DIODE 1SS133T-77		IC601 A	8-749-013-21	IC TLP721 (D4-G,T)		
				IC602	8-749-920-61	IC SE-135N		
D626	8-719-046-74	DIODE AU-01Z-V1		IC603	8-759-144-82	IC UPC2405HF		
D631	8-719-109-93	DIODE RD6.2ESB2						
D637	8-719-110-17	DIODE RD10ESB2		IC604	8-759-510-52	IC L4941BV		
D800	8-719-991-33	DIODE 1SS133T-77		IC606	8-759-267-25	IC LM2940T-9.0		
D801	8-719-991-33	DIODE 1SS133T-77		IC800	8-759-103-93	IC UPC393C		
				IC900	8-742-014-11	HYB IC SBX1981-51		
D802		LEAD, JUMPER (5.0MM)		IC1200	8-759-250-68	IC TDA7264		
D803	8-719-908-03	DIODE GP08D						
D807	8-719-302-43	DIODE EL1Z		IC1201	8-759-502-21	IC TDA2822M		
D808	8-719-908-03	DIODE GP08D						
D809	8-719-031-34	DIODE RGP02-20EG23			< SOC	CKET >		
D810	8-719-302-43	DIODE EL1Z		Ј900	1-764-606-11	JACK		
D811	8-719-110-41	DIODE RD15ES-B2		J1200	1-770-218-11	JACK, PIN		
D812	8-719-038-49	DIODE FMS-3FU-LF027-103						
D815	8-719-908-03	DIODE GP08D			< CO1	IT >		
D817	8-719-109-85	DIODE RD5.1ES-B2			4 PAR 447 41			
				L501		LEAD, JUMPER (5.0MM)		
D901		DIODE SLA-570KT3F		L502		INDUCTOR 3.3UH		
	*4-203-258-11	HOLDER, LED (D901)		L503	1-412-519-11	INDUCTOR 3.3UH		
				1				



REF. NO.										
ILI . NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	ON		R	REMARK
<b>1</b> 609	1-412-533-21	INDUCTOR 47UH			< RES	ISTOR >				
610	1-535-465-11	LEAD, JUMPER (5.0MM)								
611	1-412-527-11	INDUCTOR 15UH		R500	1-215-457-00	METAL	33K	1%	1/4W	
512	1-412-522-41	INDUCTOR 5.6UH		R502	1-249-421-11	CARBON	2.2K	5%	1/4W	
513	1-412-522-41	INDUCTOR 5.6UH		R503	1-249-429-11	CARBON	10K	5%	1/4W	
				R504	1-215-457-00	METAL	33K	1%	1/4W	
515	1-412-529-11	INDUCTOR 22UH		R505	1-249-382-11	CARBON	1.2	5%	1/4W	F
616	1-412-533-21	INDUCTOR 47UH								
801	1-459-111-00	INDUCTOR OUH		R506	1-215-437-00	METAL	4.7K	1%	1/4W	
302	1-459-104-00	COIL, WITH CORE		R507	1-215-888-00	METAL OXIDE	220	5%	2W	F
303	1-535-465-11	LEAD, JUMPER (5.0MM)		R508	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
				R509	1-249-443-11	CARBON	0.47	5%	1/4W	F
305	1-406-674-11	INDUCTOR OUH		R510	1-249-443-11	CARBON	0.47	5%	1/4W	F
306	1-535-465-11	LEAD, JUMPER (5.0MM)								
09	1-408-611-31	INDUCTOR 47UH		R519	1-215-445-00	METAL	10K	1%	1/4W	
10	1-535-465-11	LEAD, JUMPER (5.0MM)		R520	1-215-451-00	METAL	18K	1%	1/4W	
311	1-406-978-11	INDUCTOR OUH		R521	1-215-455-00	METAL	27K	1%	1/4W	
				R522	1-247-863-91	CARBON	22K	5%	1/4W	
313	1-412-552-11	INDUCTOR 2.2MMH		R523	1-247-863-91	CARBON	22K	5%	1/4W	
01	1-408-603-31									
02	1-408-603-31	INDUCTOR 10UH		R524	1-249-425-11		4.7K	5%	1/4W	
003	1-408-591-41	INDUCTOR 1UH		R525	1-249-425-11		4.7K	5%	1/4W	
04	1-408-591-41	INDUCTOR 1UH		R526	1-249-421-11	CARBON	2.2K	5%	1/4W	
				R527	1-215-437-00		4.7K		1/4W	
	< IC	LINK >		R600 A	1-216-490-11	METAL OXIDE	39K	5%	3W	F
600 A	1-532-686-21	LINK, IC 2.7A (ICP-F75)		R601	1-249-417-11	CARBON	1K	5%	1/4W	
		LINK, IC 2.7A (ICP-F75)		R602	1-215-473-00		150K		1/4W	
		LINK, IC 2.7A (ICP-F75)		R603	1-215-898-11		10K		2W	F
		LINK, IC 2.7A (ICP-F75)		R604	1-249-420-11		1.8K		1/4W	
				R605	1-216-362-11	METAL OXIDE	0.27		2W	F
	< TRA	NSISTOR >		R606	1-535-143-21	LEAD, JUMPER	(12 5N	IM)		
501	8-729-119-78			R607	1-216-421-11		12		1W	F
	0 123 113 10	TO ANGTOTOD VOCVIAS LIER		1007						F
	8-729-119-76	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE		R608	1-216-365-00		v. 21	<b>J</b> 0	/W	-
502		TRANSISTOR 2SA1175-HFE		R608	1-216-365-00 1-535-465-11			1)	2W	
i02 i03	8-729-030-02	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA		R609	1-535-465-11	LEAD, JUMPER	(5.0MA			
502 503 501	8-729-030-02 8-729-025-04	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A				LEAD, JUMPER			2W 1/4W	
02 03 01	8-729-030-02 8-729-025-04	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA		R609 R610	1-535-465-11 1-215-429-00	LEAD, JUMPER METAL	(5.0MM 2.2K	1%	1/4W	F
02 03 01 02	8-729-030-02 8-729-025-04 8-729-320-28	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667		R609 R610 R611	1-535-465-11 1-215-429-00 1-216-354-11	LEAD, JUMPER METAL METAL OXIDE	(5.0MM 2.2K 2.7	1% 5%	1/4W 1W	F
02 03 01 02	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667 TRANSISTOR 2SC3601-E		R609 R610 R611 R612	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11	LEAD, JUMPER METAL METAL OXIDE CARBON	(5.0MM 2.2K 2.7 8.2K	1% 5% 5%	1/4W 1W 1/4W	F
02 03 01 02 03 04	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R		R609 R610 R611 R612 R613	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11	LEAD, JUMPER METAL  METAL OXIDE CARBON CARBON	(5.0MM 2.2K 2.7 8.2K 1K	1% 5% 5% 5%	1/4W 1W 1/4W 1/4W	
02 03 01 02 03 03 04 05	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE		R609 R610 R611 R612 R613 R614	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11	LEAD, JUMPER METAL  METAL OXIDE CARBON CARBON METAL OXIDE	(5.0MM 2.2K 2.7 8.2K 1K 22K	1% 5% 5% 5%	1/4W 1W 1/4W 1/4W 1W	
02 03 01 02 03 04 05 06	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES		R609 R610 R611 R612 R613	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11	LEAD, JUMPER METAL  METAL OXIDE CARBON CARBON METAL OXIDE	(5.0MM 2.2K 2.7 8.2K 1K	1% 5% 5% 5%	1/4W 1W 1/4W 1/4W	
502 503 501 502 503 504 505 506	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE		R609 R610 R611 R612 R613 R614 R615	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11	LEAD, JUMPER METAL  METAL OXIDE CARBON CARBON METAL OXIDE CARBON	(5.0MM) 2.2K 2.7 8.2K 1K 22K 33K	1% 5% 5% 5% 5%	1/4W 1W 1/4W 1/4W 1W 1/4W	
02 03 01 02 03 04 05 06 07	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE		R609 R610 R611 R612 R613 R614 R615	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-471-00	LEAD, JUMPER METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL OXIDE METAL	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K	1% 5% 5% 5% 5% 5%	1/4W 1W 1/4W 1/4W 1W 1/4W	F
02 03 01 02 03 04 05 06 07	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE TRANSISTOR 1RF620		R609 R610 R611 R612 R613 R614 R615	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00	LEAD, JUMPER METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL METAL OXIDE	(5.0MM) 2.2K 2.7 8.2K 1K 22K 33K 120K 33K	1% 5% 5% 5% 5% 1%	1/4W 1W 1/4W 1/4W 1W 1/4W 1/4W 2W	F
02 03 01 02 03 04 05 06 07	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78 8-729-039-68 8-729-042-86	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE  TRANSISTOR IRF620 TRANSISTOR 2SC5251-01		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00 1-247-863-91	LEAD, JUMPER METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL METAL METAL OXIDE CARBON	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K	1% 5% 5% 5% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	F
02 03 001 002 003 004 005 006 007	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78 8-729-039-68 8-729-042-86 8-729-119-80	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE  TRANSISTOR IRF620 TRANSISTOR 1RF620 TRANSISTOR 2SC5251-01 TRANSISTOR 2SC2688-LK		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00 1-247-863-91 1-216-425-11	METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL OXIDE CARBON METAL METAL OXIDE CARBON METAL OXIDE	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K 56	1% 5% 5% 5% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	F
02 03 01 02 03 04 05 06 07 01 02 03 05	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78 8-729-039-68 8-729-042-86 8-729-119-80 8-729-030-02	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE  TRANSISTOR IRF620 TRANSISTOR IRF620 TRANSISTOR 2SC2688-LK TRANSISTOR 2SC2688-LK TRANSISTOR DTC144ESA		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00 1-247-863-91	METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL OXIDE CARBON METAL METAL OXIDE CARBON METAL OXIDE	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K	1% 5% 5% 5% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	F
02 03 01 02 03 04 05 06 07 01 02 03 05	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78 8-729-039-68 8-729-042-86 8-729-119-80 8-729-030-02	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE  TRANSISTOR IRF620 TRANSISTOR 1RF620 TRANSISTOR 2SC5251-01 TRANSISTOR 2SC2688-LK		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619 R620	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00 1-247-863-91 1-216-425-11 1-260-131-11	METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL OXIDE CARBON METAL METAL METAL OXIDE CARBON METAL OXIDE CARBON	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K 56 470K	18 58 58 58 58 58 58 58 58	1/4W 1W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/	F F
02 03 01 02 03 04 05 06 07 01 02 03 05	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78 8-729-039-68 8-729-042-86 8-729-119-80 8-729-030-02 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE  TRANSISTOR IRF620 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2688-LK TRANSISTOR DTC144ESA TRANSISTOR 2SC2785-HFE		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619 R620	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00 1-247-863-91 1-216-425-11 1-216-425-11	LEAD, JUMPER METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL METAL METAL OXIDE CARBON METAL OXIDE CARBON METAL OXIDE CARBON METAL OXIDE CARBON	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K 56 470K	18 58 58 58 58 58 58 58 58 58	1/4W 1W 1/4W 1/4W 1W 1/4W 1/4W 1/4W 1/4W	F F
02 03 01 02 03 04 05 06 07 01 02 03 05 00 00 00 00 00 00 00 00 00 00 00 00	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-900-65 8-729-119-78 8-729-039-68 8-729-042-86 8-729-119-80 8-729-119-80 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE  TRANSISTOR IRF620 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE  TRANSISTOR 2SC2785-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC2785-HFE		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619 R620	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-901-00 1-247-863-91 1-216-425-11 1-260-131-11 1-216-425-11 1-249-437-11	LEAD, JUMPER METAL OXIDE CARBON	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K 56 470K	18 58 58 58 58 58 58 58 58 58	1/4W 1W 1/4W 1/4W 1W 1/4W 1/4W 1/4W 1/4W	F F F
502 503 501 502 503 504 505 506 507 801 802 803 805 900	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-039-68 8-729-039-68 8-729-042-86 8-729-030-02 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR ZSC2785-HFE  TRANSISTOR IRF620 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2688-LK TRANSISTOR DTC144ESA TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR DTC143TSA		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619 R620 R621 R622 R624	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-901-00 1-215-901-00 1-247-863-91 1-216-425-11 1-260-131-11 1-216-425-11 1-249-437-11 1-249-393-11	LEAD, JUMPER METAL OXIDE CARBON CARBON CARBON	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K 56 470K	18 58 58 58 58 58 58 58 58 58 58	1/4W 1W 1/4W 1/4W 1W 1/4W 1/4W 1/4W 1/4W	F F F
02 03 01 02 03 04 05 06 07 01 02 03 05 00 00 00 00 00 00 00 00 00 00 00 00	8-729-030-02 8-729-025-04 8-729-320-28 8-729-805-05 8-729-024-35 8-729-119-78 8-729-00-65 8-729-119-78 8-729-042-86 8-729-042-86 8-729-119-80 8-729-119-78 8-729-119-78 8-729-029-94 8-729-029-94	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC3852A TRANSISTOR 2SA1667  TRANSISTOR 2SC3601-E TRANSISTOR 2SC2808STP-R TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ES TRANSISTOR 2SC2785-HFE  TRANSISTOR IRF620 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE  TRANSISTOR 2SC2785-HFE TRANSISTOR DTC144ESA TRANSISTOR 2SC2785-HFE		R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619 R620	1-535-465-11 1-215-429-00 1-216-354-11 1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-901-00 1-247-863-91 1-216-425-11 1-260-131-11 1-216-425-11 1-249-437-11	METAL OXIDE CARBON CARBON METAL OXIDE CARBON METAL OXIDE CARBON METAL METAL OXIDE CARBON METAL OXIDE CARBON METAL OXIDE CARBON CARBON CARBON CARBON	(5.0MM 2.2K 2.7 8.2K 1K 22K 33K 120K 33K 22K 56 470K	18 58 58 58 58 58 58 58 58 58	1/4W 1W 1/4W 1/4W 1W 1/4W 1/4W 1/4W 1/4W	F F F



0   0 0			_										
REF. NO.	PART.NO	DESCRIPTION	ON		F	EMARK	REF. NO.	PART.NO	DESCRIPTION	ON		R	EMARK
R627	1-216-347-11	METAL OXIDE	0.68	5%	1W	F	R836	1-249-439-11	CARBON	68K	5%	1/4W	
R628	1-249-415-11	CARBON	680	5%	1/4W	F	R838	1-215-455-00	METAL	27K	1%	1/4W	
R629 🛭	1-260-135-11	CARBON	1M	5%	1/2W		R840	1-247-807-31	CARBON	100	5%	1/4W	
R630 🛮	1-218-265-11	METAL	8.2M	5%	1W		R841	1-249-418-11	CARBON	1.2K	5%	1/4W	
R631 🛮 🛭	1-202-961-11	CEMENTED	1.8	5%	10W	F	R842	1-249-441-11	CARBON	100K	5%	1/4W	
R632	1-247-807-31	CARRON	100	5%	1/4W		R843	1-249-440-11	CARBON	82K	5%	1/4W	
R633	1-247-807-31		100	5%	1/4W		R844		LEAD, JUMPER			1/ 211	
R634	1-249-397-11		22	5% 5%	1/4W	F	R847	1-247-885-00		180K		1/4W	
R635	1-249-437-11		47K	5% 5%	1/4W	•	R851	1-215-898-11		10K	5% 5%	2W	F
1636	1-249-417-11		1K	5% 5%	1/4W		R852	1-249-432-11		18K	5% 5%	1/4W	•
					4 / 4							•	_
R637	1-247-815-91		220	5% = ^	1/4W		R853	1-216-361-00		0.22	5% 5°	2W	F.
1638	1-247-863-91		22K	5%	1/4W		R900	1-247-815-91		220	5% -^	1/4W	
1639	1-215-425-00		1.5K		1/4W		R901	1-247-734-11		39	5% <b>-</b> ∘	1/2W	
	1-202-961-11		1.8	5%	10W	F	R902	1-247-734-11		39	<b>5</b> %	1/2W	_
R645	1-249-422-11	CARBON	2.7K	5%	1/4W		R904	1-249-389-11	CARBON	4.7	5%	1/4W	F
R646	1-249-377-11	CARBON	0.47	5%	1/4W	F	R905	1-247-804-11	CARBON	75	5%	1/4W	
R647	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F	R906	1-247-804-11	CARBON	75	5%	1/4W	
R649	1-249-426-11	CARBON	5.6K	5%	1/4W		R907	1-247-804-11	CARBON	75	5%	1/4W	
0088	1-249-429-11	CARBON	10K	5%	1/4W		R908	1-249-401-11	CARBON	47	5%	1/4W	
802	1-215-441-00	METAL	6.8K	1%	1/4W		R909	1-249-429-11	CARBON	10K	5%	1/4W	
803	1-249-421-11	CARBON	2.2K	<b>5</b> &	1/4W		R910	1-249-422-11	CARRON	2.7K	<b>5</b> 9	1/4W	
R805	1-249-421-11		33K	5% 5%	1/4W		R910	1-249-422-11		5.6K		1/4W 1/4W	
808	1-249-433-11		220	ეი 5%	1/4W 2W	F	R912	1-249-420-11		10K	5%	1/4W	
1809	1-213-866-00		390K		2W 1/4W		R912	1-249-429-11		22K	5% 5%	1/4W 1/4W	
R810	1-247-893-11		220 220	5% 5%	•	F	R913	1-247-663-91		22K 47K	5% 5%	1/4W 1/4W	
R812	1-249-421-11		2.2K		1/4W		R919	1-249-437-11		47K	5%	1/4W	
R813	1-249-417-11		1K	5%	1/4W		R921	1-249-437-11		47K	5%	1/4W	
814	1-249-381-11		1	5%	1/4W		R922	1-247-807-31		100	5%	1/4W	
R815	1-249-381-11		1	5%	1/4W		R923	1-249-421-11		2.2K		1/4W	
R816	1-216-456-21	METAL OXIDE	820	5%	2W	F	R1200	1-249-425-11	CARBON	4.7K	5%	1/4W	
817	1-216-456-21	METAL OXIDE	820	5%	2W	F	R1201	1-249-434-11	CARBON	27K	5%	1/4W	
R818	1-215-884-11		47	5%		F	R1202	1-249-389-11		4.7	5%	1/4W	F
R819		LEAD, JUMPER					R1203	1-249-421-11		2.2K		1/4W	
R820	1-249-403-11		68	, 5%	1/4W		R1204	1-249-421-11		2.2K		1/4W	
821	1-215-909-11		47	5%	3W	F	R1205	1-249-428-11		8.2K		1/4W	
822	1-215-868-00	MPTAI OVIDE	680	5%	1W	F	R1206	1-249-428-11	CADDOM	8.2K	<b>5</b> 9	1/4W	
R823	1-215-868-00		820	ວ∜ 5%	1W 2W		R1206 R1207	1-249-428-11		8.2K 470		1/4W 1/4W	
R824	1-216-456-21		1.8K		2W 1/4W	E	R1207	1-249-413-11		4.7		1/4W 1/4W	r
	1-249-420-11		1.6K	ວ∜ 5%		r	R1208				5% 5%	1/4W 1/4W	
825			4 / 1K	ეგ 5%	2W 1/2W	r	R1209 R1210	1-212-849-00		4.7 470	ეგ 5%	1/4W 1/4W	r
826	1-247-752-11	CARDUN	ΤV	Já	1/ZW		KIZIU	1-249-413-11	CARDON	4/0	Jf	1/4W	
.827	1-249-425-11		4.7K	5%	1/4W		R1211	1-249-424-11		3.9K		1/4W	
R828	1-215-449-91	METAL	15K	1%	1/4W		R1212	1-249-424-11	CARBON	3.9K	5%	1/4W	
R829	1-214-907-00	METAL	56K	1%	1/2W		R1213	1-249-421-11	CARBON	2.2K	5%	1/4W	
R830	1-217-778-11	FUSIBLE	1K	5%	1W	F	R1216	1-249-413-11	CARBON	470	5%	1/4W	
R831	1-535-465-11	LEAD, JUMPER	(5.0MM	1)			R1217	1-249-425-11	CARBON	4.7K	5%	1/4W	
833	1-247-887-00	CARBON	220K	5%	1/4W		R1218	1-535-465-11	LEAD, JUMPER	(5 NM	۷)		
x633 R835		LEAD, JUMPER			1/4W		R1216	1-333-463-11		1K		1/4W	
.033	1-333-143-31	TEND, JUMPEK	(20.UM	тат )			KIZIS	1-249-41/-11	CARBUN	TV	<b>3</b> 8	1/4W	



	J LI													
REF. NO.	PART.NO	DESCRI	PTION		REMARK	REF. NO.	PART.NO	DESCRI	PTION		REMARK			
	< REI	AY >				C1722	1-126-935-11	ELECT	470MF	20%	16V			
						C1723	1-161-830-00	CERAMIC	0.0047MF		500V			
RY600 🛭	↑ 1-755-018-11	RELAY				C1725	1-128-551-11	ELECT	22MF	20%	25V			
						C1726	1-136-153-00	FILM	0.01MF	5%	50V			
	< SWI	TCH >				C1801	1-104-664-11	ELECT	47MF	20%	25V			
601 <i>A</i>	△ 1-571-433-21	SWITCH, PU	SH (AC POWER)	)		C1803	1-137-368-11	FILM	0.0047MF	5%	50V			
801	1-572-707-11	SWITCH, LE	VER			C1804	1-126-964-11	ELECT	10MF	20%	50V			
3900	1-692-979-21	SWITCH, TA	CTILE			C1805	1-137-366-11	FILM	0.0022MF	5%	50V			
S901	1-692-979-21	SWITCH, TA	CTILE											
S902 1-692-979-21 SWITCH, TACTILE							< CONNECTOR >							
	< SPA	RK GAP >				CN1716	*1-568-880-51	PIN, CONNE	CTOR 5P					
							*1-568-881-51							
SG801	1-519-422-11	GAP, SPARK					*1-770-723-11			RD 8P				
SG802	1-519-422-11						1-568-878-51							
		•					*1-568-879-11							
	< TRA	NSFORMER >												
						CN1802	*1-568-878-51	PIN, CONNE	CTOR 3P					
LF600 /	△ 1-431-402-11	TRANSFORME	R, LINE FILT	ER										
LF601 A	△ 1-431-402-11	TRANSFORME	R, LINE FILT	ER		< DIODE >								
1601 /	△ 1-429-604-12	TRANSFORME	R, CONVERTER			D1701	1-535-465-11	LEAD, JUME	ER (5.0MM)					
1800	1-426-981-11		-			D1702		•						
	1-453-269-11			-	511/U2B4)	D1703								
r804	1-437-090-31		,		, , ,	D1801								
T805	1-431-899-11		R, HORIZONTA	L LINEAR										
			,				< IC	>						
	< THE	RMISTOR >												
						IC1801	8-759-701-59	IC NJM78M0	9FA					
THP600 A	△ 1-809-827-11	THERMISTOR	, POSITIVE			IC1802	8-759-603-37	IC M5216P						
*****	******	*****	*****	*****	*****		< CO1	IT >						
	*A-1644-091-A	VM BOARD,	COMPLETE			L1701	1-414-183-41	INDUCTOR	10UH					
		******	*****			L1703	1-408-603-31	INDUCTOR	10UH					
						L1704	1-408-603-31	INDUCTOR	10UH					
	4-382-854-01	SCREW (M3X	8), P, SW (+)	)										
	< CAF	ACITOR >				< IC LINK >								
<b>41</b> 84 5	4 404 000 11		4.00	222	4.00	PS1801	△ 1-532-605-91	LINK, IC 0	.4A (ICP-N10)					
C1701	1-126-933-11		100MF	20%	16V									
C1702	1-126-933-11		100MF	20%	16V		< TRA	ANSISTOR >						
C1703	1-130-491-00		0.047MF	5%	50V	04=04	0 800 440 ==		000000000000000000000000000000000000000					
C1704	1-107-640-91		100MF	20%	160V	Q1701	8-729-119-78							
C1705	1-107-638-11	ELECT	33MF	20%	160V	Q1702	8-729-119-78							
~1 50 4	4 404 000		A 41:	<b>F</b> ^		Q1703	8-729-017-05							
C1706	1-104-999-11		0.1MF	<b>5</b> %	200V	Q1704	8-729-119-78							
C1707	1-137-397-11		0.047MF	5% 5°	100V	Q1705	8-729-119-76	TRANSISTOR	2SA1175-HFE					
C1708	1-137-364-11		0.001MF	5% 5°	50V		A HAA A:- :-		0001=00					
C1709	1-137-364-11		0.001MF	<b>5</b> %	50V	Q1706	8-729-017-06							
C1710	1-102-959-00	CERAMIC	22PF	5%	50V	Q1708								
01711	1 100 155 11		101-	000	100	Q1709	8-729-119-78	TRANSISTOR	2SC2785-HFE					
C1711	1-126-157-11		10MF	20%	16V									
C1720	1-107-667-11		2.2MF	20%	160V									
C1721	1-137-397-11	F.TTW	0.047MF	5%	100V									

VM

K5

REF. NO.	PART.NO	DESCRIPTION			i	REMARK	REF. NO.	REF. NO. PART.NO		PTION	REMARK		
	< RES	SISTOR >					C264	1-136-495-11	FILM	0.068MF	5%	50V	
							C265	1-136-176-00		0.82MF	5%	50V	
R1701	1-249-397-11	CARBON	22	5%	1/4W	F	C266	1-136-176-00		0.82MF	5%	50V	
R1702	1-247-807-31	CARBON	100	5%	1/4W		C267	1-136-169-00	FILM	0.22MF	<b>5</b> %	50V	
R1703	1-249-416-11		820	5%	1/4W		C268	1-136-169-00		0.22MF	5%	50V	
R1704	1-247-807-31	CARBON	100	5%	1/4W								
R1706	1-247-815-91		220	5%	1/4W		C270	1-101-005-00	CERAMIC	0.022MF		50V	
					•		C271	1-126-952-11		1000MF	20%	35V	
R1707	1-249-411-11	CARBON	330	5%	1/4W		C272	1-126-952-11		1000MF	20%	35V	
R1708	1-249-417-11	CARBON	1K	5%	1/4W								
R1710	1-249-403-11	CARBON	68	5%	1/4W			< CO1	NECTOR >				
R1711	1-249-403-11		68	5%	1/4W								
R1712	1-212-974-00	FUSIBLE	47	5%	1/2W	F	CN1303	*1-568-879-11	PIN, CONNE	CTOR 4P			
							CN1304	*1-568-879-11	•				
R1713	1-249-452-11	CARBON	2.7	5%	1/4W	F	CN1307	*1-564-511-11	•				
R1714	1-249-414-11	CARBON	560	5%	1/4W	F							
R1715	1-249-432-11	CARBON	18K	5%	1/4W			< IC	>				
R1716	1-249-417-11	CARBON	1K	5%	1/4W	F							
R1717	1-216-476-11	METAL OXIDE	180	5%	3W		IC260	8-759-250-68	IC TDA7264				
R1718	1-249-432-11	CARRON	18K	5%	1/4W			< RES	SISTOR >				
R1719	1-249-383-11		1.5	5% 5%	1/4W	F		1121	,,				
R1720	1-247-696-11		47	5% 5%	1/4W		R265	1-249-429-11	CARBON	10K 5%	1/4	ı	
R1721	1-249-414-11		560	5% 5%	1/4W		R266	1-249-429-11		10K 5%			
R1722	1-249-401-11		47	5%	1/4W	-	R267	1-212-849-00		4.7 5%			
	1 217 101 11	OILLOIN	• /	•	-/ -111		R268	1-212-849-00		4.7 5%			
R1723	1-535-465-11	T.EAD . JUMPER	R (5.0MM	1)			R269	1-216-073-00		10K 5%			
R1724	1-249-417-11	•		∙, 5%	1/4W		1.205	1 110 070 00	1.20 / 0.122	2011 0	-, -	,	
R1725	1-249-417-11		1K	5% 5%	1/4W		R270	1-216-073-00	RES.CHIP	10K 5%	1/10	)W	
R1726	1-249-425-11			5% 5%	1/4W		1.2.7	1 110 070 00	1.20 / 0.122	2011 0	-/ -	,	
R1727	1-249-427-11		6.8K		1/4W		*****	*****	******	*****	*****	*****	
R1728	1-249-408-11	CARBON	180	5%	1/4W								
R1729	1-249-408-11	CARBON	180	5%	1/4W								
R1730	1-247-819-91	CARBON	330	5%	1/4W								
R1731	1-249-414-11	CARBON	560	5%	1/4W								
R1806	1-247-883-00	CARBON	150K	5%	1/4W								
R1807	1-249-429-11	CARBON	10K	5%	1/4W								
R1808	1-249-429-11		10K	5%	1/4W								
R1809	1-249-429-11			5%	1/4W								
R1810	1-249-429-11	CARBON	10K	5%	1/4W								
*****	******	*****	*****	****	*****	******							
	*A-1649-022-A	K5 BOARD, C0											
	4-202-373-01 4-202-710-01	SPRING, IC SPACER, INST	JLATING										
< CAPACITOR >													
C261	1-136-173-00	M.TT	0.47MF		5%	50V							
C262	1-136-175-00		0.47MF		5%	50V							
C263	1-136-495-11		0.068M	F	5% 5%	50V							
CE 03	1 130-433-11	LIM	v.voor	ı.	J-0	JU V							

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION		REMARK
	***	SCELLANEOUS		*4-204-158-01	CUSHION (LOWER) CUSHION (UPPER) BAG, PROTECTION			
Δ		COIL, DEMAGNETIZATION						
		MAGNET, DISC: 10MM Ø	. 45			MOTE COMMANDER		
٨		MAGNET, ROTATABLE DISK			**	*****		
<u>Z</u>		TRANSFORMER ASSY, FLYE SPEAKER (10CM)	SACK (NA-4511/UZB4)		1-475-833-11	COMMANDER, STAN	DARD TYPE (	RM-886)
								•
	1-505-952-11			******	*****	******	******	-**************
		SWITCH, PUSH (AC POWER TUNER/VIF (AEP)	(KV-29FX11A/29FX11D/					
	1-053-330-11	TONER/VIE (AEF)	KV-29FX11R/29FX11K/ KV-29FX11R)					
	1-693-340-11	TUNER/VIF (FR)	(KV-29FX11B)					
		TUNER/VIF (UK)	(KV-29FX11U)					
Δ	1-765-286-11	CORD, POWER	(KV-29FX11A/29FX11B/					
			KV-29FX11D/29FX11E/					
			KV-29FX11K)					
^	1-574-062-61	CORD, POWER (WITH CONN	JECTOR\ /KV-29FY11R\					
		CORD, POWER (FILTER)						
		DELECTION YOKE (Y29RSA						
		NECK ASSY, NA299-M	·					
Δ	8-735-041-05		1001					
٨		COIL, NA ROTATION (RT2 CAP ASSY, HIGH VOLTAGE						
			*****					
		CESSORIES AND PACKING N						
	4-204-202-41	MANUAL, INSTRUCTION (ITALIAN)	(KV-29FX11A)					
	4-204-202-51	MANUAL, INSTRUCTION (FRENCH/GERMAN/ITALI	(KV-29FX11B)					
	4-204-202-11	MANUAL, INSTRUCTION	(KV-29FX11D)					
		(TURKISH/GERMAN/GREE	EK/ENGLISH)					
	4-204-202-71	MANUAL, INSTRUCTION (SPANISH)	(KV-29FX11E)					
	4-204-202-81	MANUAL, INSTRUCTION (PORTUGUESE/FINNISH/ SWEDISH)	(KV-29FX11E) DANISH/NORWEGIAN/					
	4-204-202-91	MANUAL, INSTRUCTION (KV- (CZECH/ENGLISH/POLIS BULGARIAN/HUNGARIAN						
	4-204-202-61	MANUAL, INSTRUCTION (ENGLISH)	(KV-29FX11U)					
	*4-204-164-01	INDIVIDUAL CARTON						